TECHNOLOGY DEPT.

BROADCASTING

The Weekly Newsmagazine of Radio Broadcast Advertising

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# New Broadcast Allocations

## Ordered Under The

# North American Regional Broadcasting Agreement

## (Havana Treaty)

## Effective March 29, 1941

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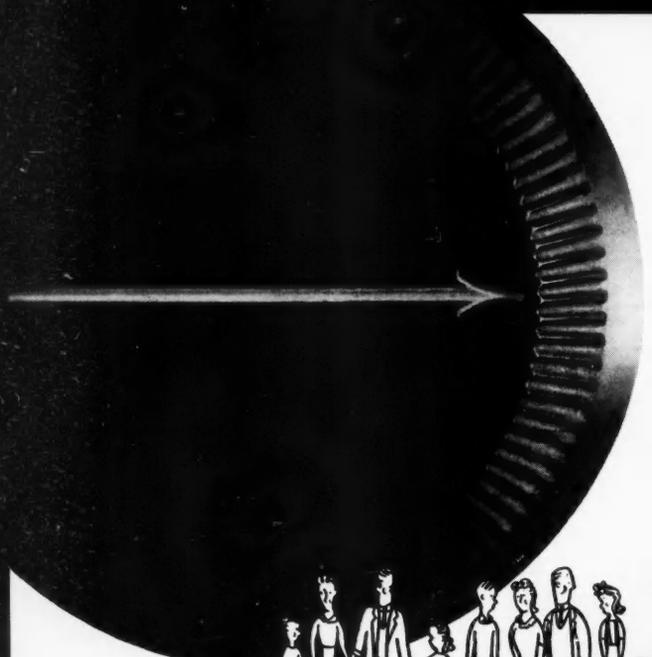
Compiled by the Staff of BROADCASTING from Authoritative Government Sources



# We congratulate the 126 CBS stations

## for the many special things they are doing to move 29,300,000 U.S. radio families "less than an inch" on their dials!

They've let their imaginations wander along the path of good promotion... planned the *basic* things first... and then put into effect the *unusual*, the things that mark CBS stations as smartly aggressive.

They're arranging sales with local department stores, with the sale price the same as the new frequency of the station... a $10.70 sale in one of Los Angeles' leading stores will call sharp attention to the new frequency of KNX, for example.

They're giving prizes to everybody whose telephone number, social security number, street address or automobile license is the same as the new frequency. They're covering railroad trains, street cars, buses, taxicabs, with posters featuring the change. They're even flying kites imprinted with the new frequency!

They're getting circulars in all customer mail sent out by their own local clients. They're flooding their cities with crews of boys and girls, carrying portable radio sets and placards announcing the change. They're enlisting civic groups, business groups, religious groups, education groups, to spread word of their new frequencies.

They're doing all these things *in addition to* the basic comprehensive plan sent to stations by the NAB.

They're doing them *in addition to* the "irreducible minimum" suggested by CBS.

They're doing them *in addition to* the distribution of over 1,600,000 pieces of display material sent out by CBS and the individual stations.*

With the net result that these 126 CBS stations will transfer their audiences... or hold them at the old addresses..."without spilling a drop," on March 29.

So... our congratulations to the CBS stations: the most alert group of stations in radio!

## THE COLUMBIA BROADCASTING SYSTEM

**Samples of all display material are included in the "CBS working kit," with copies available on request to any advertiser.*

U—Unlimited
With Do

Powers shown
new equipmen
All powers are

| Call Letters | |
|---|---|
| KABC..... | Sa |
| KABR..... | Ab |
| KADA..... | Ac |
| KALB..... | Al |
| KALE..... | Po |
| KAND..... | C |
| KANS..... | W |
| KARK..... | L |
| KARM..... | F |
| KASA..... | E |
| KAST..... | A |
| KATE..... | A |
| KAVE..... | C |
| KAWM..... | C |
| KBIX..... | M |
| *KBIZ..... | C |
| KBKR..... | |
| KBND..... | |
| KBPS..... | |
| KBST..... | |
| KBTM..... | |
| *KBUR..... | |
| *KBWD..... | |
| KCKN..... | |
| KCMC..... | |
| KCMO ..... | |
| KCRC..... | |
| KCRJ..... | |
| KDAL..... | |
| KDB ..... | |
| KDFN..... | |
| KDKA..... | |
| KDLR..... | |
| KDNT..... | |
| KDON..... | |
| KDRO..... | |
| *KDTH ..... | |
| KDYL..... | |
| KECA..... | |
| KELA..... | |
| KELD..... | |
| KELO..... | |
| KENO..... | |
| KERN..... | |
| KEUB..... | |
| KEVR..... | |
| KEX..... | |
| *KEYS..... | |
| KFAB..... | |

BRO

# Log of U. S. Broadcast Stations

**Call Letter List Showing New Assignments Effective March 29, 1941 Under the Havana Treaty**

**(As approved by the United States Government)**

**ABBREVIATIONS**

**U—Unlimited Time. D—Daytime. N—Night Time. S—Shares Time. SH—Specified Hours. LS—Power Until Local Sunset. L—Limited Time With Dominant Station. CP—Construction Permit. DA—Directional Antenna. *—CP for New Station. †—CP for New Frequency.**

**EXPLANATION**

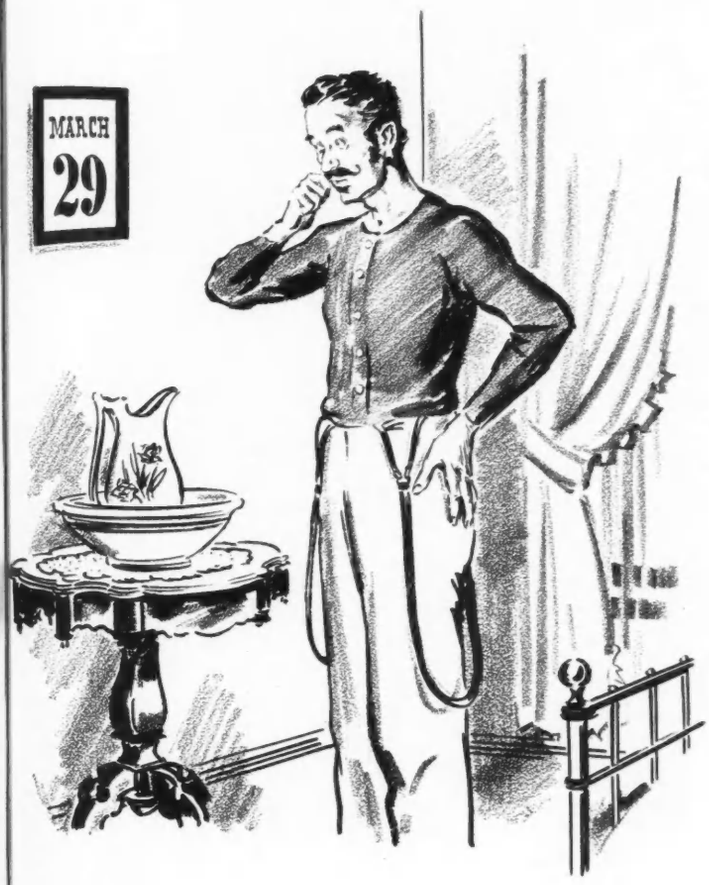
**Powers shown are those at present authorized. Classifications of stations, however, govern potential power allowed. Many stations already are installing new equipment which will qualify them for the higher power permissible under their classifications. For classes and potential powers see definitions on Page 36. All powers are U unless otherwise designated. Where LS and D powers are shown, the upper designation is the night power. Radiation in terms of millivolts-per-meter (mv/m) indicates the average (RMS) unattenuated field strength at one mile for 1,000 watts.**

*(Corrected to March 20, 1941)*

| Call Letters | Location | Power in Watts | New Frequency in Kc. | Time Designation | Class |
|---|---|---|---|---|---|
| | | **K** | | | |
| KABC | San Antonio, Tex. | 250 | 1450 | U | IV |
| KABR | Aberdeen, S. D. | 500<br>1,000—LS<br>CP-5,000—U | 1420 | U | III-A |
| KADA | Ada, Okla. | 250 | 1230 | U | IV |
| KALB | Alexandria, La. | 250 | 1240 | U | IV |
| KALE | Portland, Ore. | 1,000<br>5,000—LS<br>CP-5,000—U | 1330 | U | III-A |
| KAND | Corsicana, Tex. | 100 | 1340 | U | IV |
| KANS | Wichita, Kan. | 250 | 1240 | U | IV |
| KARK | Little Rock, Ark. | 5,000 | 920 | U | III-A |
| KARM | Fresno, Cal. | 250 | 1340 | U | IV |
| KASA | Elk City, Okla. | 100 | 1240 | U | IV |
| KAST | Astoria, Ore. | 250 | 1230 | U | IV |
| KATE | Albert Lea, Minn. | 250 | 1450 | U | IV |
| KAVE | Carlsbad, N. M. | 250 | 1240 | U | IV |
| KAWM | Gallup, N. M. | 100 | 1490 | U | IV |
| KBIX | Muskogee, Okla. | 100<br>CP-250 | 1490 | U | IV |
| *KBIZ | Ottumwa, Ia. | 100 | 1240 | U | IV |
| KBKR | Baker, Ore. | 250 | 1490 | U | IV |
| KBND | Bend, Ore. | 250 | 1340 | U | IV |
| KBPS | Portland, Ore. | 100 | 1450 | S-KXL | IV |
| KBST | Big Spring, Tex. | 100 | 1490 | U | IV |
| KBTM | Jonesboro, Ark. | 100<br>250—LS | 1230 | U | IV |
| *KBUR | Burlington, Ia. | 250 | 1490 | U | IV |
| *KBWD | Brownwood, Tex. | 500 | 1380 | U | III-B |
| KCKN | Kansas City, Kan. | 250 | 1340 | U | IV |
| KCMC | Texarkana, Tex. | 250 | 1450 | U | IV |
| KCMO | Kansas City, Mo. | 1,000<br>5,000—LS | 1480 | U | III-B |
| KCRC | Enid, Okla | 250<br>(Proposed 1,000) | 1390 | U | IV<br>III-B |
| KCRJ | Jerome, Ariz. | 250 | 1340 | U | IV |
| KDAL | Duluth, Minn. | 250 | 1490 | U | IV |
| KDB | Santa Barbara, Cal. | 250 | 1490 | U | IV |
| KDFN | Casper, Wyo. | 1,000 | 1470 | U | III-B |
| KDKA | Pittsburgh, Pa. | 50,000 | 1020 | U | I-A |
| KDLR | Devils Lake, N. D. | 250 | 1240 | U | IV |
| KDNT | Denton, Tex. | 100 | 1450 | U | IV |
| KDON | Monterey, Cal. | 100 | 1240 | U | IV |
| KDRO | Sedalia, Mo. | 250 | 1490 | U | IV |
| *KDTH | Dubuque, Ia. | 1,000 | 1370 | U | III-B |
| KDYL | Salt Lake City, Utah | 1,000<br>5,000—LS<br>CP-5,000—U | 1320 | U | III-A |
| KECA | Los Angeles, Cal. | 1,000<br>5,000—LS<br>CP-5,000—U | 790 | U | III-A |
| KELA | Centralia, Wash. | 1,000 | 1470 | U | III-A |
| KELD | El Dorado, Ark. | 250 | 1400 | U | IV |
| KELO | Sioux Falls, S. D. | 250 | 1230 | U | IV |
| KENO | Las Vegas, Nev. | 250 | 1400 | U | IV |
| KERN | Bakersfield, Cal. | 1,000 | 1410 | U | III-A |
| KEUB | Price, Utah | 250 | 1450 | U | IV |
| KEVR | Seattle, Wash. | 100 | 1400 | S-KRKO | IV |
| KEX | Portland, Ore. | 5,000<br>(Proposed 50,000) | 1190 | U | II<br>I-B |
| *KEYS | Corpus Christi, Tex. | 250 | 1490 | U | IV |
| KFAB | Lincoln, Neb. | 10,000<br>(Proposed 50,000—U) | 780<br>(Proposed 1110) | S-WBBM | I-B |
| KFAC | Los Angeles, Cal. | 1,000 | 1330 | U | III-A |
| KFAM | St. Cloud, Minn. | 250 | 1450 | U | IV |
| KFAR | Fairbanks, Alaska | 1,000 | 610 | U | III-A |
| KFBB | Great Falls, Mont. | 1,000<br>5,000—LS<br>CP-5,000—U | 1310 | U | III-A |
| KFBC | Cheyenne, Wyo. | 250 | 1240 | U | IV |
| KFBI | Wichita, Kan. | 5,000<br>CP-1,000—N<br>CP-5,000—LS | 1070 | L-KNX<br>CP-U | II |
| KFBK | Sacramento, Cal. | 10,000 | 1530 | U | I-B |
| KFDA | Amarillo, Tex. | 250 | 1230 | U | IV |
| KFDM | Beaumont, Tex. | 1,000 | 560 | U | III-A |
| KFDY | Brookings, S. D. | 1,000 | 790 | SHD | III |
| KFEL | Denver, Col. | 1,000<br>CP-5,000 | 950 | U | III-A |
| KFEQ | St. Joseph, Mo. | 500<br>2,500—LS | 680 | L-KPO | II |
| KFGQ | Boone, Ia. | 100 | 1400 | SHD | IV |
| KFH | Wichita, Kan. | 1,000<br>5,000—LS<br>CP-5,000—U | 1330 | U | III-A |
| KFI | Los Angeles, Cal. | 50,000 | 640 | U | I-A |
| KFIO | Spokane, Wash. | 100 | 1150 | D | IV |
| KFIZ | Fond du Lac, Wis. | 100 | 1450 | U | IV |
| KFJB | Marshalltown, Ia. | 250 | 1230 | U | IV |
| KFJI | Klamath Falls, Ore. | 100 | 1240 | U | IV |
| KFJM | Grand Forks, N. D. | 500<br>1,000—LS | 1440 | U | III-B |
| KFJZ | Fort Worth, Tex. | 1,000<br>CP-5,000 | 1270 | U | III-A |
| KFKA | Greeley, Col. | 1,000 | 910 | S-KPOF | III-A |
| KFKU | Lawrence, Kan. | 1,000<br>5,000—LS | 1250 | S-WREN | III-A |
| *KFMB | San Diego, Cal. | 250 | 1450 | U | IV |
| KFNF | Shenandoah, Ia. | 500<br>1,000—LS | 920 | S-KUSD | III-B |
| KFOR | Lincoln, Neb. | 100<br>250—LS<br>CP-250—U | 1240 | U | IV |
| KFOX | Long Beach, Cal. | 1,000 | 1280 | U | III-A |
| KFPL | Dublin, Tex. | 100<br>250—LS | 1340 | U | IV |
| KFPW | Ft. Smith, Ark. | 250 | 1400 | U | IV |
| KFPY | Spokane, Wash. | 5,000 | 920 | U | III-A |
| KFQD | Anchorage, Alaska | 250 | 790 | SH | IV |
| KFRC | San Francisco, Cal. | 5,000 | 610 | U | III-A |
| KFRO | Longview, Tex. | 1,000 | 1370 | U | III-B |
| KFRU | Columbia, Mo. | 250 | 1400 | U | IV |
| KFSD | San Diego, Cal. | 1,000<br>CP-5,000 | 600 | U | III-A |
| KFSG | Los Angeles, Cal. | 1,000<br>2,500—LS | 1150 | S-KRKD | III-A |
| KFUO | Clayton, Mo. | 1,000<br>CP-5,000 | 850 | L-KOA | II |
| KFVD | Los Angeles, Cal. | 1,000 | 1020 | L-KDKA | II |
| KFVS | Cape Girardeau, Mo. | 250 | 1400 | U | IV |
| KFWB | Los Angeles, Cal. | 5,000 | 980 | U | III-A |
| KFXD | Nampa, Ida. | 250 | 1230 | U | IV |
| KFXJ | Grand Junction, Col. | 250 | 1230 | U | IV |
| KFXM | San Bernardino, Cal. | 250 | 1240 | S-KPPC | IV |
| KFYO | Lubbock, Tex. | 250 | 1340 | U | IV |
| KFYR | Bismarck, N. D. | 1,000<br>5,000—LS<br>CP-5,000—U | 550 | U | III-A |
| KGA | Spokane, Wash. | 5,000<br>(Proposed 10,000) | 1510 | U | II<br>I-B |
| KGB | San Diego, Cal. | 1,000 | 1360 | U | III-A |
| *KGBS | Harlingen, Tex. | 250 | 1240 | U | IV |
| KGBU | Ketchikan, Alaska | 500 | 930 | U | III-B |
| KGBX | Springfield, Mo. | 5,000 | 1260 | U | III-A |
| KGCU | Mandan, N. D. | 250<br>(Proposed 500)<br>1,000—LS) | 1270 | U | IV<br>III-B |
| KGCX | Wolf Point, Mont. | 1,000 | 1480 | U | III-A |
| KGDE | Fergus Falls, Minn. | 100<br>250—LS | 1230 | U | IV |
| KGDM | Stockton, Cal. | 1,000 | 1130 | D | II |
| KGEK | Sterling, Col. | 100 | 1230 | SH | IV |
| KGER | Long Beach, Cal. | 1,000 | 1390 | U | III-A |
| KGEZ | Kalispell, Mont. | 100<br>CP-1,000 | 1340<br>†1460 | U<br>U | IV<br>III-B |
| KGFF | Shawnee, Okla. | 250 | 1450 | U | IV |

| Call Letters | Location | Power in Watts | New Frequency in Kc. | Time Designation | Class |
|---|---|---|---|---|---|
| KGFI..... | Brownsville, Tex. | 100<br>250—LS | 1490 | U | IV |
| KGFJ..... | Los Angeles, Cal. | 100 | 1230 | U | IV |
| KGFL..... | Roswell, N. M. | 100 | 1400 | U | IV |
| KGFW..... | Kearney, Neb. | 250 | 1340 | U | IV |
| KGFX..... | Pierre, S. D. | 200 | 630 | SHD | IV |
| KGGF..... | Coffeyville, Kan. | 500<br>1,000—LS | 690 | U | II |
| KGGM..... | Albuquerque, N. M. | 1,000 | 1260 | U | III-A |
| KGHF..... | Pueblo, Col. | 500 | 1350 | U | III-B |
| KGHI..... | Little Rock, Ark. | 250 | 1230 | U | IV |
| KGHL..... | Billings, Mont. | 1,000<br>5,000—LS<br>CP-5,000—U | 790 | U | III-A |
| KGIR..... | Butte, Mont. | 5,000 | 1370 | U | III-A |
| KGIW..... | Alamosa, Col. | 100 | 1450 | SH-KIDW | IV |
| KGKB..... | Tyler, Tex. | 250 | 1490 | U | IV |
| KGKL..... | San Angelo, Tex. | 250 | 1400 | U | IV |
| KGKO..... | Fort Worth, Tex. | 1,000<br>5,000—LS<br>CP-5,000—U | 570 | U | III-A |
| KGKY..... | Scottsbluff, Neb. | 250 | 1490 | U | IV |
| KGLO..... | Mason City, Ia. | 250<br>CP-1,000 | †1300 | U | III-B |
| KGLU..... | Safford, Ariz. | 250 | 1450 | U | IV |
| KGMB..... | Honolulu, T. H. | 5,000 | 590 | U | III-A |
| KGNC..... | Amarillo, Tex. | 1,000<br>2,500—LS<br>CP-5,000—LS | 1440 | U | III-A |
| KGNF..... | North Platte, Neb. | 1,000 | 1460 | D | III |
| KGNO..... | Dodge City, Kan. | 250<br>1,000—LS | 1370 | U | III-B |
| KGO..... | San Francisco, Cal. | 7,500<br>(Proposed 10,000) | 810 | U | I-B |
| KGU..... | Honolulu, T. H. | 2,500 | 760 | L-WJR | II |
| KGVO..... | Missoula, Mont. | 1,000<br>5,000—LS | 1290 | U | III-A |
| KGW..... | Portland, Ore. | 1,000<br>5,000—LS<br>CP-5,000—U | 620 | U | III-A |
| KGY..... | Olympia, Wash. | 100 | 1240 | U-except when KTW operating | IV |
| KHAS..... | Hastings, Neb. | 250 | 1230 | U | IV |
| KHBC..... | Hilo, T. H. | 250 | 1230 | U | IV |
| KHBG..... | Okmulgee, Okla. | 250 | 1240 | U | IV |
| KHJ..... | Los Angeles, Cal. | 1,000<br>5,000—LS<br>CP-5,000—U | 930 | U | III-A |
| *KHMO.... | Hannibal, Mo. | 250 | 1340 | U | IV |
| *KHON.... | Honolulu, T. H. | 250 | 1340 | U | IV |
| KHQ..... | Spokane, Wash. | 5,000 | 590 | U | III-A |
| KHSL..... | Chico, Cal. | 500<br>1,000—LS | 1290 | U | III-B |
| KHUB..... | Watsonville, Cal. | 250 | 1340 | U | IV |
| KICA..... | Clovis, N. M. | 100 | 1400 | U | IV |
| KID..... | Idaho Falls, Ida. | 500<br>5,000—LS | 1350 | U | III-B |
| KIDO..... | Boise, Ida. | 1,000<br>2,500—LS | 1380 | U | III-A |
| KIDW..... | Lamar, Col. | 100 | 1450 | SH-KGIW | IV |
| KIEM..... | Eureka, Cal. | 500<br>1,000—LS | 1480 | U | III-B |
| KIEV..... | Glendale, Cal. | 250 | 870 | D | II |
| KINY..... | Juneau, Alaska | 1,000 | 1460 | U | III-A |
| KIRO..... | Seattle, Wash. | 1,000<br>CP-50,000 | 710 | U | I-B |
| KIT..... | Yakima, Wash. | 1,000 | 1280 | U | III-A |
| KITE..... | Kansas City, Mo. | 1,000 | 1590 | U | III-A |
| KIUL..... | Garden City, Kan. | 100 | 1240 | U | IV |
| KIUN..... | Pecos, Tex. | 100 | 1400 | U | IV |
| KIUP..... | Durango, Col. | 250 | 1400 | U | IV |
| KJBS..... | San Francisco, Cal. | 500 | 1100 | L-WTAM | II |
| KJR..... | Seattle, Wash. | 5,000<br>(Proposed 10,000) | 1000 | U | I-B |
| KLBM..... | LaGrande, Ore. | 250 | 1450 | U | IV |
| KLCN..... | Blytheville, Ark. | 100 | 1320 | D | IV |
| KLO..... | Ogden, Utah | 5,000 | 1430 | U | III-A |
| KLPM..... | Minot, N. D. | 1,000 | 1390 | U | III-A |
| KLRA..... | Little Rock, Ark. | 5,000 | 1420 | U | III-A |
| KLS..... | Oakland, Cal. | 250<br>CP-1,000 | 1310 | U | III-A |
| KLUF..... | Galveston, Tex. | 250 | 1400 | U | IV |
| KLX..... | Oakland, Cal. | 1,000 | 910 | U | III-A |
| KLZ..... | Denver, Col. | 5,000 | 560 | U | III-A |
| KMA..... | Shenandoah, Ia. | 1,000<br>5,000—LS | 960 | U | III-A |
| KMAC..... | San Antonio, Tex. | 250 | 1400 | S-KONO | IV |
| KMBC..... | Kansas City, Mo. | 5,000 | 980 | U | III-A |
| KMED..... | Medford, Ore. | 1,000 | 1440 | U | III-A |
| KMJ..... | Fresno, Cal. | 5,000 | 580 | U | III-A |

| Call Letters | Location | Power in Watts | New Frequency in Kc. | Time Designation | Class |
|---|---|---|---|---|---|
| KMLB..... | Monroe, La. | 250 | 1230 | U | IV |
| KMMJ..... | Grand Island, Neb. | 1,000 | 750 | L-WSB | II |
| KMO..... | Tacoma, Wash. | 1,000<br>CP-5,000 | 1360 | U | III-A |
| KMOX..... | St. Louis, Mo. | 50,000 | 1120 | U | I-A |
| KMPC..... | Beverly Hills, Cal. | 1,000<br>5,000—LS<br>CP-5,000—U | 710 | U | II |
| KMTR..... | Los Angeles, Cal. | 1,000 | 570 | U | III-A |
| KMYC..... | Marysville, Cal. | 100 | 1450 | U | IV |
| *KMYR.... | Denver, Col. | 100<br>250—LS | 1340 | U | IV |
| KNEL..... | Brady, Tex. | 100<br>250—LS | 1490 | U | IV |
| KNET..... | Palestine, Tex. | 100 | 1450 | D | IV |
| KNOW..... | Austin, Tex. | 250 | 1490 | U | IV |
| KNX..... | Los Angeles, Cal. | 50,000 | 1070 | U | I-B |
| KOA..... | Denver, Col. | 50,000 | 850 | U | I-A |
| KOAC..... | Corvallis, Ore. | 1,000<br>CP-5,000—LS | 550 | U | III-A |
| KOAM..... | Pittsburg, Kan. | 1,000 | 810 | D | II |
| KOB..... | Albuquerque, N. M. | 10,000<br>CP-50,000 | 1030 | U | II |
| KOBH..... | Rapid City, S. D. | 250 | 1400 | U | IV |
| KOCA..... | Kilgore, Tex. | 250 | 1240 | U | IV |
| KOCY..... | Oklahoma City, Okla. | 250 | 1340 | U | IV |
| KODL..... | The Dalles, Ore. | 100<br>250—LS | 1230 | U | IV |
| KOH..... | Reno, Nev. | 1,000 | 630 | U | III-A |
| KOIL..... | Omaha, Neb. | 1,000<br>5,000—LS<br>CP-5,000—U | 1290 | U | III-A |
| KOIN..... | Portland, Ore. | 5,000 | 970 | U | III-A |
| KOKO..... | La Junta, Col. | 100 | 1400 | U | IV |
| KOL..... | Seattle, Wash. | 1,000<br>5,000—LS | 1300 | U | III-A |
| KOMA..... | Oklahoma City, Okla. | 5,000<br>(Proposed 50,000) | 1520 | U | II<br>I-B |
| KOME..... | Tusla, Okla. | 250 | 1340 | U | IV |
| KOMO..... | Seattle, Wash. | 1,000<br>5,000—LS<br>CP-5,000—U | 950 | U | III-A |
| *KONB.... | Omaha, Neb. | 250 | 1490 | U | IV |
| KONO..... | San Antonio, Tex. | 250 | 1400 | S-KMAC | IV |
| KOOS..... | Marshfield, Ore. | 250 | 1230 | U | IV |
| KORE..... | Eugene, Ore. | 250 | 1450 | U | IV |
| KORN..... | Fremont, Neb. | 250 | 1400 | U | IV |
| KOTN..... | Pine Bluff, Ark. | 250 | 1490 | U | IV |
| KOVC..... | Valley City, N. D. | 250 | 1490 | U | IV |
| KOVO..... | Provo, Utah | 250 | 1240 | U | IV |
| KOWH..... | Omaha, Neb. | 500 | 660 | D | II |
| KOY..... | Phoenix, Ariz. | 1,000 | 550 | U | III-A |
| KPAB..... | Laredo, Tex. | 250 | 1490 | U | IV |
| KPAC..... | Port Arthur, Tex. | 500 | 1250 | U | III-B |
| KPDN..... | Pampa, Tex. | 100 | 1340 | U | IV |
| KPFA..... | Helena, Mont. | 250 | 1240 | U | IV |
| KPHO..... | Phoenix, Ariz. | 250 | 1230 | U | IV |
| KPLC..... | Lake Charles, La. | 250 | 1490 | U | IV |
| KPLT..... | Paris, Tex. | 250 | 1490 | U | IV |
| KPMC..... | Bakersfield, Cal. | 1,000 | 1600 | U | III-A |
| KPO..... | San Francisco, Cal. | 50,000 | 680 | U | I-B |
| KPOF..... | Denver, Col. | 1,000 | 910 | S-KFKA | III-A |
| *KPOW.... | Powell, Wyo. | 250 | 1230 | U | IV |
| KPPC..... | Pasadena, Cal. | 100 | 1240 | S-KFXM | IV |
| KPQ..... | Wenatchee, Wash. | 250 | 1490 | U | IV |
| KPRC..... | Houston, Tex. | 1,000<br>5,000—LS<br>CP-5,000—U | 950 | U | III-A |
| KQV..... | Pittsburgh, Pa. | 1,000 | 1410 | U | III-B |
| KQW..... | San Jose, Cal. | 1,000<br>5,000—LS<br>(Proposed 5,000—U) | 740 | U | II |
| KRBA..... | Lufkin, Tex. | 250 | 1340 | D | IV |
| KRBC..... | Abilene, Tex. | 250 | 1450 | U | IV |
| KRBM..... | Bozeman, Mont. | 250 | 1450 | U | IV |
| KRE..... | Berkeley, Cal. | 250 | 1400 | U | IV |
| KRGV..... | Weslaco, Tex. | 1,000 | 1290 | U | III-A |
| KRIC..... | Beaumont, Tex. | 250 | 1450 | U | IV |
| KRIS..... | Corpus Christi, Tex. | 500<br>CP-1,000 | 1360 | U | III-A |
| *KRJF..... | Miles City, Mont. | 250 | 1340 | U | IV |
| KRKD..... | Los Angeles, Cal. | 1,000<br>2,500—LS | 1150 | S-KFSG | III-A |
| KRKO..... | Everett, Wash. | 50<br>CP-100<br>CP-250—LS | 1400 | S-KEVR | IV |
| KRLC..... | Lewiston, Ida. | 250 | 1400 | U | IV |
| KRLD..... | Dallas, Tex. | 50,000 | 1080 | U | I-B |
| KRLH..... | Midland, Tex. | 100<br>CP-250 | 1450 | U | IV |
| KRMC..... | Jamestown, N. D. | 250 | 1400 | U | IV |




# "GUESS IT'S TIME TO CHANGE FREQUENCIES!"

● Now that we're shucking off our old 1000 K. C. frequency, and going to our brand new 1040, we think you'll be interested in a progress report on your favorite Midwestern station.

First—WHO, as you would judge, of course, has been designated as a Class 1 outlet with 50,000 watts—will be the *only* U. S. station operating on 1040 K. C., day or night.

Second — Under Paul A. Loyet, the world-known WHO engineering staff will of course preserve our long record of leadership in radio transmission, with continuing research on synchronization, facsimile, polyphase and recording technique and equipment.

Third — As in the past, WHO's 50,000-watt voice will continue to serve a wide area in the Middle West—our "Iowa *Plus*".

In other words—we're changing frequencies, but nothing else. To millions of WHO friends, that's the best news ever!

**WHO**

**+ *for* IOWA PLUS! +**

DES MOINES . . . 50,000 WATTS

J. O. MALAND, MANAGER

FREE & PETERS, INC. . . . . National Representatives

| Call Letters | Location | Power in Watts | New Frequency in Kc. | Time Designation | Class |
|---|---|---|---|---|---|
| KRMD..... | Shreveport, La. | 250 | 1340 | U | IV |
| KRNR..... | Roseburg, Ore. | 100<br>250—LS | 1490 | U | IV |
| KRNT..... | Des Moines, Ia. | 1,000<br>5,000—LS<br>CP-5,000—U | 1350 | U | III-A |
| KROC..... | Rochester, Minn. | 250 | 1340 | U | IV |
| KROD..... | El Paso, Tex. | 500<br>1,000—LS | 600 | U | III-B |
| KROW..... | Oakland, Cal. | 1,000 | 960 | U | III-A |
| KROY..... | Sacramento, Cal. | 100 | 1240 | U | IV |
| KRRV..... | Sherman, Tex. | 1,000 | 910 | U | III-B |
| KRSC..... | Seattle, Wash. | 1,000 | 1150 | U | III-A |
| KSAC..... | Manhattan, Kan. | 500<br>1,000—LS | 580 | S-WIBW | III-B |
| KSAL..... | Salina, Kan. | 500<br>1,000—LS<br>CP-1,000—U | 1150 | U | III-B |
| KSAM..... | Huntsville, Tex. | 250 | 1490 | D | |
| KSAN..... | San Francisco, Cal. | 250 | 1450 | U | IV |
| KSCJ..... | Sioux City, Ia. | 1,000<br>5,000—LS<br>CP-5,000—U | 1360 | U | III-A |
| KSD..... | St. Louis, Mo. | 1,000<br>5,000—LS | 550 | U | III-B |
| KSEI..... | Pocatello, Ida. | 250<br>1,000—LS | 930 | U | III-B |
| KSFO..... | San Francisco, Cal. | 1,000<br>5,000—LS | 560 | U | III-A |
| KSL..... | Salt Lake City, Utah | 50,000 | 1160 | U | I-A |
| KSLM..... | Salem, Ore. | 1,000 | 1390 | U | III-A |
| KSO..... | Des Moines, Ia. | 1,000<br>5,000—LS<br>CP-5,000—U | 1460 | U | III-A |
| KSOO..... | Sioux Falls, S.D. | 5,000 | 1140 | L-WRVA | II |
| KSRO..... | Santa Rosa, Cal. | 250<br>CP-1,000 | 1350 | U | III-B |
| KSTP..... | St. Paul, Minn. | 50,000 | 1500 | U | I-B |
| KSUB..... | Cedar City, Utah | 100 | 1340 | U | IV |
| KSUN..... | Lowell, Ariz. | 250 | 1230 | U | IV |
| *KSWO.... | Lawton, Okla. | 250 | 1150 | D | IV |
| KTAR..... | Phoenix, Ariz. | 5,000 | 620 | U | III-A |
| KTBC..... | Austin, Tex. | 1,000 | 1150 | SHD-WTAW | III |
| KTBS..... | Shreveport, La. | 1,000 | 1480 | U | III-B |
| KTEM..... | Temple, Tex. | 250 | 1400 | U | IV |
| KTFI..... | Twin Falls, Ida. | 1,000 | 1270 | U | III-A |
| KTHS..... | Hot Springs, Ark. | 10,000<br>(Proposed 50,000) | 1090 | U | I-B |
| KTKC..... | Visalia, Cal. | 1,000 | 920 | U | III-B |
| KTMS..... | Santa Barbara, Cal. | 1,000 | 1250 | U | III-B |
| KTOH..... | Lihue, T. H. | 250 | 1490 | U | IV |
| KTOK..... | Oklahoma City, Okla. | 250 | 1400 | U | IV |
| KTRB..... | Modesto, Cal. | 250 | 860 | D | II |
| KTRH..... | Houston, Tex. | 1,000<br>5,000—LS<br>CP-5,000—U | 1320 | U | III-A |
| KTRI..... | Sioux City, Ia. | 250 | 1450 | U | IV |
| KTSA..... | San Antonio, Tex. | 1,000<br>5,000—LS | 550 | U | III-A |
| KTSM..... | El Paso, Tex. | 500 | 1380 | U | III-B |
| KTSW..... | Emporia, Kan. | 250 | 1400 | U | IV |
| KTUC..... | Tucson, Ariz. | 250 | 1400 | U | IV |
| KTUL..... | Tulsa, Okla. | 5,000 | 1430 | U | III-A |
| KTW..... | Seattle, Wash. | 1,000 | 1250 | S-KWSC | III-A |
| KUIN..... | Grants Pass, Ore. | 250 | 1340 | U | IV |
| KUJ..... | Walla Walla, Wash. | 100<br>CP-1,000 | †1420 | U | III-A |
| KUOA..... | Siloam Springs, Ark. | 5,000 | 1290 | D | III |
| KUSD..... | Vermillion, S. D. | 500 | 920 | S-KFNF | III-B |
| KUTA..... | Salt Lake City, Utah | 250<br>CP-1,000 | †570 | U | III-B |
| KVAK..... | Atchison, Kan. | 100 | 1450 | U | IV |
| KVAN..... | Vancouver, Wash. | 250 | 910 | D | IV |
| KVCV..... | Redding, Cal. | 250 | 1230 | U | IV |
| KVEC..... | San Luis Obispo, Cal. | 250 | 1230 | U | IV |
| KVFD..... | Ft. Dodge, Ia. | 250 | 1400 | SH | IV |
| KVGB..... | Great Bend, Kan. | 250 | 1400 | U | IV |
| KVI..... | Tacoma, Wash. | 5,000 | 570 | U | III-A |
| KVIC..... | Victoria, Tex. | 250 | 1340 | U | IV |
| KVNU..... | Logan, Utah | 250 | 1230 | U | IV |
| KVOA..... | Tucson, Ariz. | 1,000 | 1290 | U | III-A |
| KVOD..... | Denver, Col. | 1,000 | 630 | U | III-A |
| KVOE..... | Santa Ana, Cal. | 250 | 1490 | U | IV |
| KVOL..... | Lafayette, La. | 250 | 1340 | U | IV |
| KVOO..... | Tulsa, Okla. | 25,000<br>(Proposed 50,000) | 1170 | U | I-B |
| KVOR..... | Colorado Springs, Col. | 1,000 | 1300 | U | III-A |
| KVOS..... | Bellingham, Wash. | 250 | 1230 | U | IV |
| KVOX..... | Moorhead, Minn. | 250 | 1340 | U | IV |
| KVRS..... | Rock Springs, Wyo. | 250 | 1400 | U | IV |
| KVSF..... | Santa Fe, N. M. | 100 | 1340 | U | IV |
| KVSO..... | Ardmore, Okla. | 100<br>250—LS | 1240 | U | IV |
| KVWC..... | Vernon, Tex. | 250 | 1490 | U | IV |
| KWAL..... | Wallace, Ida. | 250 | 1450 | U | IV |
| KWAT..... | Watertown, S. D. | 250 | 1240 | U | IV |
| KWBG..... | Hutchinson, Kan. | 100 | 1450 | U | IV |
| KWEW..... | Hobbs, N. M. | 100 | 1490 | U | IV |
| KWFC..... | Hot Springs, Ark. | 250 | 1340 | U | IV |
| KWFT..... | Wichita Falls, Tex. | 1,000<br>5,000—LS | 620 | U | III-A |
| KWG..... | Stockton, Cal. | 100 | 1230 | U | IV |
| KWIL..... | Albany, Ore. | 250 | 1240 | U | IV |
| KWJB..... | Globe, Ariz. | 250 | 1240 | U | IV |
| KWJJ..... | Portland, Ore. | 500<br>CP-1,000—U | 1080 | L-KRLD<br>WTIC | II |
| KWK..... | St. Louis, Mo. | 1,000<br>5,000—LS<br>CP-5,000—U | 1380 | U | III-A |
| KWKH..... | Shreveport, La. | 50,000 | 1130 | U | I-B |
| KWLC..... | Decorah, Ia. | 100<br>CP—250 | †1240 | SH | IV |
| KWLK..... | Longview, Wash. | 250 | 1400 | U | IV |
| KWLM..... | Willmar, Minn. | 250 | 1340 | U | IV |
| KWNO..... | Winona, Minn. | 250 | 1230 | U | IV |
| KWOC..... | Poplar Bluff, Mo. | 250 | 1340 | U | IV |
| KWOS..... | Jefferson City, Mo. | 250 | 1340 | U | IV |
| KWSC..... | Pullman, Wash. | 5,000 | 1250 | S-KTW | III-A |
| KWTO..... | Springfield, Mo. | 5,000<br>1,000 (5 to 6 a.m.) | 560 | D(5 a.m. to local sunset) | III |
| KWYO..... | Sheridan, Wyo. | 250 | 1400 | U | IV |
| KXA..... | Seattle, Wash. | 1,000 | 770 | L-WJZ | II |
| KXL..... | Portland, Ore. | 250 | 1450 | S-KBPS | IV |
| KXO..... | El Centro, Cal. | 100 | 1490 | U | IV |
| KXOK..... | St. Louis, Mo. | 5,000 | 630 | U | III-A |
| KXOX..... | Sweetwater, Tex. | 250 | 1240 | U | IV |
| KXRO..... | Aberdeen, Wash. | 250 | 1340 | U | IV |
| KXYZ..... | Houston, Tex. | 1,000 | 1470 | U | III-A |
| KYA..... | San Francisco, Cal. | 1,000<br>5,000—LS | 1260 | U | III-A |
| KYAN..... | Cheyenne, Wyo. | 250 | 1400 | U | IV |
| KYCA..... | Prescott, Ariz. | 250 | 1490 | U | IV |
| KYOS..... | Merced, Cal. | 250 | 1080 | D | II |
| KYSM..... | Mankato, Minn. | 250 | 1230 | U | IV |
| KYUM..... | Yuma, Ariz. | 250 | 1240 | U | IV |
| KYW..... | Philadelphia, Pa. | 50,000 | 1060 | U | I-B |
| *NEW..... | Clinton, Ia. | 250 | 1340 | U | IV |

## W

| | | | | | |
|---|---|---|---|---|---|
| WAAB..... | Boston, Mass. | 1,000 | 1440 | U | III-A |
| WAAF..... | Chicago, Ill. | 1,000 | 950 | D | III |
| WAAT..... | Jersey City, N. J. | 500<br>CP-1,000 | 970 | U | III-B |
| WABC..... | New York, N. Y. | 50,000 | 880 | U | I-A |
| WABI..... | Bangor, Me. | 250<br>CP-5,000 | 1230<br>†910 | U | III-A |
| WABY..... | Albany, N. Y. | 250 | 1400 | U | IV |
| WACO..... | Waco, Tex. | 250 | 1450 | U | IV |
| WADC..... | Akron, O. | 5,000 | 1350 | U | III-A |
| WAGA..... | Atlanta, Ga. | 500<br>1,000—LS | 1480 | U | III-B |
| *WAGE.... | Salina, N. Y. | 1,000 | 620 | U | III-B |
| WAGF..... | Dothan, Ala. | 250 | 1400 | U | IV |
| WAGM..... | Presque Isle, Me. | 100 | 1450 | SH | IV |
| WAIM..... | Anderson, S. C. | 100<br>CP-250 | 1230 | U | IV |
| WAIR..... | Winston-Salem, N. C. | 250 | †1340 | U | IV |
| WAJR..... | Morgantown, W. Va. | 250 | 1230 | U | IV |
| WAKR..... | Akron, O. | 1,000 | 1590 | U | III-A |
| WALA..... | Mobile, Ala. | 500<br>1,000—LS<br>CP-5,000—U | 1410 | U | III-A |
| *WALB..... | Albany, Ga. | 1,000 | 1590 | U | III-A |
| WAML..... | Laurel, Miss. | 250 | 1340 | U | IV |
| WAOV..... | Vincennes, Ind. | 100 | 1450 | U | IV |
| WAPI..... | Birmingham, Ala. | 5,000<br>(Proposed 50,000) | 1170<br>(Proposed 1070) | U | II |
| WAPO..... | Chattanooga, Tenn. | 250<br>CP-1,000<br>CP-5,000—LS | †1150 | U | III-B |
| WARD..... | Brooklyn, N. Y. | 500 | 1430 | S-WBBC, WLTH, WVFW | III-B |
| WARM..... | Scranton, Pa. | 250 | 1400 | U | IV |
| WASH..... | Grand Rapids, Mich. | 500<br>(Proposed 5,000) | 1300 | S-WOOD | III-B<br>III-A |
| WATL..... | Atlanta, Ga. | 250 | 1400 | U | IV |
| WATN..... | Watertown, N. Y. | 250 | 1240 | U | IV |
| WATR..... | Waterbury, Conn. | 250 | 1320 | U | IV |
| WATW..... | Ashland, Wis. | 100 | 1400 | U | IV |

**TWO BIG EVENTS**

**FOR MAY 1941:**

**ST. LOUIS: THE NAB CONVENTION**

**BALTIMORE: THE OPENING OF . . .**

# *The new* WBAL

## FULL TIME and 50,000 WATTS

**One of America's Great Radio Stations**

| Call Letters | Location | Power in Watts | New Frequency in Kc. | Time Designation | Class |
|---|---|---|---|---|---|
| WAVE | Louisville, Ky. | 5,000 | 970 | U | III-A |
| WAWZ | Zarephath, N. J. | 1,000 | 1380 | S-WBNX | III-A |
| WAYX | Waycross, Ga. | 250 | 1230 | U | IV |
| WAZL | Hazleton, Pa. | 250 | 1450 | U | IV |
| WBAA | West Lafayette, Ind. | 500<br>1,000—LS<br>CP-1,000—N<br>CP-5,000—LS | 920 | SH<br>CP-U | III-B |
| WBAB | Atlantic City, N. J. | 250 | 1490 | U | IV |
| WBAL | Baltimore, Md. | 10,000<br>CP-50,000 | 1090 | U | I-B |
| WBAP | Fort Worth, Tex. | 50,000 | 820 | S-WFAA | I-A |
| WBAX | Wilkes-Barre, Pa. | 100 | 1240 | U | IV |
| WBBC | Brooklyn, N. Y. | 500 | 1430 | S-WARD, WLTH, WVFW | III-B |
| WBBL | Richmond, Va. | 100 | 1240 | SH | IV |
| WBBM | Chicago, Ill. | 50,000 | 780 | U | I-A |
| WBBR | Brooklyn, N. Y. | 1,000 | 1330 | S-WEVD, WHAZ | III-A |
| WBBZ | Ponca City, Okla. | 250 | 1230 | U | IV |
| WBCM | Bay City, Mich. | 500<br>1,000—LS | 1440 | U | III-B |
| WBEN | Buffalo, N. Y. | 1,000<br>5,000—LS<br>CP-5,000—U | 930 | U | III-A |
| WBHP | Huntsville, Ala. | 250 | 1230 | U | IV |
| WBIG | Greensboro, N. C. | 1,000<br>5,000—LS<br>CP-5,000—U | 1470 | U | III-A |
| *WBIR | Knoxville, Tenn. | 250 | 1240 | U | IV |
| WBLJ | Dalton, Ga. | 250 | 1230 | U | IV |
| WBLK | Clarksburg, W. Va. | 250 | 1400 | U | IV |
| WBML | Macon, Ga. | 250 | 1240 | U | IV |
| WBNS | Columbus, O. | 1,000<br>5,000—LS | 1460 | U | III-B |
| WBNX | New York, N. Y. | 5,000 | 1380 | S-WAWZ | III-A |
| WBNY | Buffalo, N. Y. | 250 | 1400 | S-WSVS | IV |
| WBOC | Salisbury, Md. | 250 | 1230 | U | IV |
| WBOW | Terre Haute, Ind. | 250 | 1230 | U | IV |
| WBRB | Red Bank, N. J. | 100 | 1240 | S-WGBB | IV |
| WBRC | Birmingham, Ala. | 1,000<br>5,000—LS<br>CP-5,000—U | 960 | U | III-A |
| WBRE | Wilkes-Barre, Pa. | 250 | 1340 | U | IV |
| WBRK | Pittsfield, Mass. | 250 | 1340 | U | IV |
| WBRW | Welch, W. Va. | 250 | 1340 | U | IV |
| WBRY | Waterbury, Conn. | 1,000<br>CP-5,000 | 1590 | U | III-A |
| WBT | Charlotte, N. C. | 50,000 | 1110 | U | I-B |
| *WBTA | Batavia, N. Y. | 250 | 1490 | U | IV |
| WBTH | Williamson, W. Va. | 250 | 1400 | U | IV |
| WBTM | Danville, Va. | 100<br>250—LS | 1400 | U | IV |
| WBZ | Boston, Mass. | 50,000 | 1030 | U-Synchronized with WBZA | I-B |
| WBZA | Springfield, Mass. | 1,000 | 1030 | U-Synchronized with WBZ | II |
| WCAD | Canton, N. Y. | 500 | 1250 | SHD | III |
| WCAE | Pittsburgh, Pa. | 5,000 | 1250 | U | III-A |
| WCAL | Northfield, Minn. | 5,000 | 770 | S-WLB (1/3 daytime) | II |
| WCAM | Camden, N. J. | 500 | 1310 | S-WCAP, WTNJ | III-B |
| WCAO | Baltimore, Md. | 500<br>1,000—LS | 600 | U | III-B |
| WCAP | Asbury Park, N. J. | 500 | 1310 | S-WCAM, WTNJ | III-B |
| WCAR | Pontiac, Mich. | 1,000 | 1130 | D | II |
| WCAT | Rapid City, S. D. | 100 | 1230 | SHD | IV |
| WCAU | Philadelphia, Pa. | 50,000 | 1210 | U | I-A |
| WCAX | Burlington, Vt. | 250 | 1230 | U | IV |
| WCAZ | Carthage, Ill. | 100 | 1080 | D | II |
| WCBA | Allentown, Pa. | 500 | 1470 | S-WSAN | III-B |
| WCBD | Chicago, Ill. | 5,000 | 1110 | L-WBT, S-WMBI | II |
| WCBI | Columbus, Miss. | 250 | 1400 | U | IV |
| WCBM | Baltimore, Md. | 250 | 1400 | U | IV |
| WCBS | Springfield, Ill. | 250 | 1450 | U | IV |
| WCBT | Roanoke Rapids, N. C. | 250 | 1230 | U | IV |
| WCCO | Minneapolis, Minn. | 50,000 | 830 | U | I-A |
| *WCED | DuBois, Pa. | 250 | 1230 | U | IV |
| WCFL | Chicago, Ill. | 5,000<br>CP-10,000 | 1000 | U | I-B |
| WCHS | Charleston, W. Va. | 5,000 | 580 | U | III-A |
| WCHV | Charlottesville, Va. | 250 | 1450 | U | IV |
| WCKY | Cincinnati, O. | 50,000 | 1530 | U | I-B |
| WCLE | Cleveland, O. | 500 | 610 | D | III |
| WCLO | Janesville, Wis. | 250 | 1230 | U | IV |
| WCLS | Joliet, Ill. | 100<br>CP-250 | 1340 | U | IV |
| WCMI | Ashland, Ky. | 250 | 1340 | U | IV |
| WCNC | Elizabeth City, N. C. | 250 | 1400 | U | IV |
| WCNW | Brooklyn, N. Y. | 250<br>(Proposed 500) | 1600 | S-WWRL | IV<br>III-B |
| WCOA | Pensacola, Fla. | 500<br>1,000—LS | 1370 | U | III-B |
| WCOC | Meridian, Miss. | 1,000 | 910 | U | III-A |
| WCOL | Columbus, O. | 250 | 1230 | U | IV |
| WCOP | Boston, Mass. | 500 | 1150 | D<br>CP-U | III-B |
| WCOS | Columbia, S. C. | 250 | 1400 | U | IV |
| WCOU | Lewiston, Me. | 250 | 1240 | U | IV |
| WCOV | Montgomery, Ala. | 100<br>CP-250 | 1240 | U | IV |
| WCPO | Cincinnati, O. | 250 | 1230 | U | IV |
| WCRW | Chicago, Ill. | 100 | 1240 | SH-WEDC, WSBC | IV |
| WCSC | Charleston, S. C. | 500<br>1,000—LS<br>(Proposed 1,000) | 1390 | U | III-B<br>III-A |
| WCSH | Portland, Me. | 1,000<br>2,500—LS<br>CP-5,000—U | 970 | U | III-A |
| WDAE | Tampa, Fla. | 5,000 | 1250 | U | III-A |
| WDAF | Kansas City, Mo. | 5,000 | 610 | U | III-A |
| WDAK | West Point, Ga. | 250 | 1340 | U | IV |
| WDAN | Danville, Ill. | 250 | 1490 | U | IV |
| WDAS | Philadelphia, Pa. | 250 | 1400 | U | IV |
| WDAY | Fargo, N. D. | 5,000 | 970 | U | III-A |
| *WDBC | Escanaba, Mich. | 250 | 1490 | U | IV |
| WDBJ | Roanoke, Va. | 1,000<br>5,000—LS<br>CP-5,000—U | 960 | U | III-A |
| WDBO | Orlando, Fla. | 5,000 | 580 | U | III-A |
| WDEF | Chattanooga, Tenn. | 250 | 1400 | U | IV |
| WDEL | Wilmington, Del. | 250<br>1,000—LS<br>CP-5,000—U | 1150 | U | III-A |
| WDEV | Waterbury, Vt. | 1,000 | 550 | D | III |
| WDGY | Minneapolis, Minn. | 1,000<br>5,000—LS | 1130 | SH<br>(Proposed U) | II |
| WDLP | Panama City, Fla. | 100<br>250—LS | 1230 | U | IV |
| WDMJ | Marquette, Mich. | 250 | 1340 | U | IV |
| WDNC | Durham, N. C. | 250 | 1490 | U | IV |
| WDOD | Chattanooga, Tenn. | 1,000<br>5,000—LS<br>CP-5,000—U | 1310 | U | III-A |
| WDRC | Hartford, Conn. | 5,000 | 1360 | U | III-A |
| WDSM | Superior, Wis. | 100 | 1230 | U | IV |
| WDSU | New Orleans, La. | 1,000<br>CP-5,000 | 1280 | U | III-A |
| WDWS | Champaign, Ill. | 250 | 1400 | U | IV |
| WDZ | Tuscola, Ill. | 1,000 | 1050 | D | II |
| WEAF | New York, N. Y. | 50,000 | 660 | U | I-A |
| WEAN | Providence, R. I. | 1,000<br>5,000—LS<br>CP-5,000—U | 790 | U | III-A |
| WEAU | Eau Claire, Wis. | 1,000<br>5,000—LS | 1070 | L-KFBI | II |
| WEBC | Duluth, Minn. | 1,000<br>5,000—LS<br>CP-5,000—U | 1320 | U | III-A |
| WEBQ | Harrisburg, Ill. | 250 | 1240 | U | IV |
| WEBR | Buffalo, N. Y. | 250 | 1340 | U | IV |
| WEDC | Chicago, Ill. | 250 | 1240 | SH-WCRW, WSBC | IV |
| WEED | Rocky Mount, N. C. | 250 | 1450 | U | IV |
| WEEI | Boston, Mass. | 5,000 | 590 | U | III-A |
| WEEU | Reading, Pa. | 1,000 | 850 | D | II |
| WELI | New Haven, Conn. | 250<br>500—LS<br>CP-500—N<br>CP-1,000—LS | 960 | U | III-B |
| WELL | Battle Creek, Mich. | 250 | 1400 | U | IV |
| WEMP | Milwaukee, Wis. | 250 | 1340 | U | IV |
| WENR | Chicago, Ill. | 50,000 | 890 | S-WLS | I-A |
| WENY | Elmira, N. Y. | 250 | 1230 | U | IV |
| WEOA | Evansville, Ind. | 250 | 1400 | U | IV |
| *WERC | Erie, Pa. | 100<br>250—LS | 1490 | U | IV |
| WEST | Easton, Pa. | 250 | 1400 | U | IV |
| WESX | Salem, Mass. | 100 | 1230 | U | IV |
| WEVD | New York, N. Y. | 1,000<br>CP-5,000 | 1330 | S-WBBR, WHAZ | III-A |
| WEW | St. Louis, Mo. | 1,000 | 770 | D | II |
| WEXL | Royal Oak, Mich. | 50<br>CP-250 | 1340 | U | IV |
| WFAA | Dallas, Tex. | 50,000 | 820 | S-WBAP | I-A |
| WFAM | South Bend, Ind. | 100 | 1230 | SH | IV |

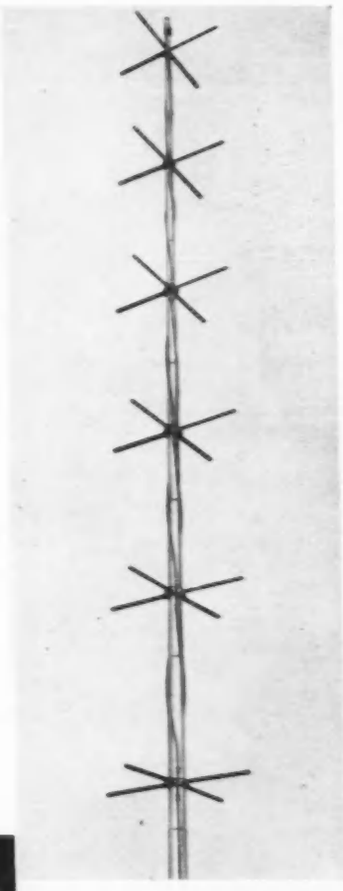
LINGO FOR

# FM

# TURNSTILE

(PATENTED DESIGN)

# ANTENNA



**IMPORTANT NEW FEATURES:**

Radiates horizontal polarized signal with substantially uniform circular field pattern.

Custom built, factory adjusted to operating frequency. No field adjustments necessary.

Improved design greatly simplifies method of feeding and coupling.

Turnstile elements fed by coaxial lines. No open turnstile wires used.

Lighting equipment, climbing steps installed without interfering with operation of turnstile.

Heating elements may be used in turnstile arms for sleet melting where necessary.

Available with 2, 4, 6, 8 and 10 layers of turnstile elements, depending upon desired gain.

*—Already Proven By Experience to Assure You of Complete Satisfaction and the Utmost in Efficiency!*

Improved in design—completely developed—the Lingo FM Antenna comes to you as a "finished product" offering distinct improvements over all previous designs. Lingo has a definite, important place in your FM plans and offers you antenna performance and efficiency based on EXPERIENCE and not *experiment!*

Write today for technical facts and price quotation. Please indicate your proposed frequency, power and location. Quotations will be gladly submitted for individual applications only and will include the essential tubular steel mounting pole, turnstile elements, coupling equipment, transmission lines feeding the elements, etc. Climbing steps, lighting equipment and sleet melting units available as optional equipment. Erection on your supporting tower or building roof can also be included.

**JOHN E. LINGO & SON, Inc.** — **LINGO VERTICAL TUBULAR STEEL RADIATORS** — **Dept. B-31 CAMDEN, N. J.**

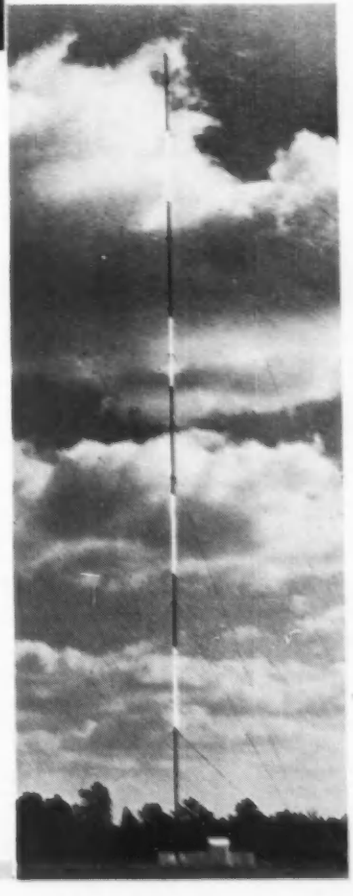
LINGO FOR

# AM

# VERTICAL

TUBULAR STEEL

# RADIATOR



**PARTIAL LIST OF INSTALLATIONS:**

| | | | |
|---|---|---|---|
| WTAR | Norfolk | WFPG | Altoona |
| WIBW | Topeka | WMOG | Brunswick |
| WCSH | Portland | WOLF | Syracuse |
| WBOC | Salisbury | WGKV | Charleston |
| WWSW | Pittsburgh | WAOV | Vincennes |
| KTSW | Emporia | WSLS | Roanoke |
| WSAV | Savannah | WAJR | Morgantown |
| WFBG | Atlantic City | WIBM | Jackson |
| WBTH | Williamson | WLLH | Lawrence |
| WCOU | Lewiston | CFAC | Calgary, Alb. |
| WPID | Petersburg | CJKL | Kirkland Lake Ont. |
| WRJN | Racine | CKGB | Timmins, Ont. |

*Double Duty for Your Dollars:*

- **REDUCES MAINTENANCE COSTS**
- **INCREASES STATION PERFORMANCE**

BROADCASTERS: If overhead costs are as important with you as performance is with your engineers—then *all* will enjoy the satisfaction of a Lingo Tubular Steel Radiator. Facts *prove* that you can expect *highest efficiency* and *pay less for maintenance.* The moderate initial cost and low upkeep cost, plus assured *peak performance* combine to give you more profits through better coverage.

Yes, we want to tell YOU our important story. Our engineering staff will be pleased to provide you with technical details as they apply in your own particular case—without obligation, of course. In writing please give location, power and frequency of station.

| Call Letters | Location | Power in Watts | New Frequency in Kc. | Time Designation | Class |
|---|---|---|---|---|---|
| WFAS..... | White Plains, N. Y. | 250 | 1240 | S-WGBB | IV |
| WFBC..... | Greenville, S. C. | 1,000<br>5,000—LS<br>CP-5,000—U | 1330 | U | III-A |
| WFBG..... | Altoona, Pa. | 250 | 1340 | U | IV |
| WFBL..... | Syracuse, N. Y. | 5,000 | 1390 | U | III-A |
| WFBM..... | Indianapolis, Ind. | 1,000<br>5,000—LS<br>CP-5,000—U | 1260 | U | III-A |
| WFBR..... | Baltimore, Md. | 1,000<br>5,000—LS<br>(Proposed 5,000) | 1300 | U | III-A |
| *WFCI..... | Pawtucket, R. I. | 1,000 | 1420 | U | III-B |
| WFDF..... | Flint, Mich. | 100<br>CP-1,000 | †910 | U | III-B |
| WFEA..... | Manchester, N. H. | 500<br>1,000—LS<br>CP-5,000—U | 1370 | U | III-A |
| WFHR..... | Wisconsin Rapids, Wis. | 100<br>250—LS | 1340 | U | IV |
| WFIG..... | Sumter, S. C. | 100<br>250—LS | 1340 | U | IV |
| WFIL..... | Philadelphia, Pa. | 1,000 | 560 | U | III-A |
| WFLA..... | Tampa, Fla. | 1,000<br>5,000—LS | 970 | U | III-B |
| WFMD..... | Frederick, Md. | 500 | 930 | U | III-B |
| WFMJ..... | Youngstown, O. | 250 | 1450 | U | IV |
| WFNC..... | Fayetteville, N. C. | 250 | 1370 | D | IV |
| WFOR..... | Hattiesburg, Miss. | 100<br>CP-250 | 1400 | U | IV |
| WFOY..... | St. Augustine, Fla. | 250 | 1240 | U | IV |
| WFPG..... | Atlantic City, N. J. | 250 | 1450 | U | IV |
| WFTC..... | Kinston, N. C. | 250 | 1230 | U | IV |
| WFTL..... | Ft. Lauderdale, Fla. | 250 | 1400 | U | IV |
| WFTM..... | Fort Myers, Fla. | 250 | 1240 | U | IV |
| WFVA..... | Fredericksburg, Va. | 250 | 1290 | D | IV |
| WGAC..... | Augusta, Ga. | 250 | 1240 | U | IV |
| WGAL..... | Lancaster, Pa. | 250 | 1490 | U | IV |
| WGAN..... | Portland, Me. | 5,000 | 560 | U | III-A |
| WGAR..... | Cleveland, O. | 1,000<br>5,000—LS | 1480 | U | III-B |
| WGAU..... | Athens, Ga. | 250 | 1340 | U | IV |
| WGBB..... | Freeport, N. Y. | 100 | 1240 | S-WBRB, WFAS | IV |
| WGBF..... | Evansville, Ind. | 1,000<br>5,000—LS | 1280 | U | III-B |
| WGBI..... | Scranton, Pa. | 500<br>1,000—LS | 910 | S-WQAN | III-B |
| WGBR..... | Goldsboro, N. C. | 250 | 1400 | U | IV |
| WGCM..... | Gulfport, Miss. | 250 | 1240 | U | IV |
| WGES..... | Chicago, Ill. | 500<br>(Sunday) 1,000—LS<br>CP-5,000—U | 1390 | SH<br>CP-U | III-A |
| *WGGA.... | Gainesville, Ga. | 250 | 1240 | U | IV |
| WGH..... | Newport News, Va. | 250 | 1340 | U | IV |
| WGIL..... | Galesburg, Ill. | 250 | 1400 | U | IV |
| WGKV..... | Charleston, W. Va. | 100 | 1490 | U | IV |
| WGL..... | Ft. Wayne, Ind. | 250 | 1450 | U | IV |
| WGN..... | Chicago, Ill. | 50,000 | 720 | U | I-A |
| WGNC..... | Gastonia, N. C. | 250 | 1450 | U | IV |
| WGNY..... | Newburgh, N. Y. | 250 | 1250 | D | IV |
| WGOV..... | Valdosta, Ga. | 250 | 1450 | U | IV |
| WGPC..... | Albany, Ga. | 250 | 1450 | U | IV |
| WGR..... | Buffalo, N. Y. | 1,000<br>5,000—LS | 550 | U | III-B |
| WGRB..... | Grands Rapids, Mich. | 250 | 1230 | U | IV |
| WGRC..... | New Albany, Ind. | 250 | 1400 | U | IV |
| WGRM..... | Greenwood, Miss. | 250 | 1240 | U | IV |
| WGST..... | Atlanta, Ga. | 1,000<br>5,000—LS | 920 | U | III-A |
| WGTC..... | Greenville, N. C. | 250 | 1490 | U | IV |
| WGTM..... | Wilson, N. C. | 250 | 1340 | U | IV |
| WGY..... | Schenectady, N. Y. | 50,000 | 810 | U | I-B |
| WHA..... | Madison, Wis. | 5,000 | 970 | D | III |
| WHAI..... | Greenfield, Mass. | 250 | 1240 | U | IV |
| *WHAL..... | Saginaw, Mich. | 500 | 980 | D | III |
| WHAM..... | Rochester, N. Y. | 50,000 | 1180 | U | I-A |
| WHAS..... | Louisville, Ky. | 50,000 | 840 | U | I-A |
| WHAT..... | Philadelphia, Pa. | 100 | 1340 | S-WTEL | IV |
| WHAZ..... | Troy, N. Y. | 1,000 | 1330 | S-WBBR WEVD | III-A |
| WHB..... | Kansas City, Mo. | 1,000 | 880 | D | II |
| WHBB..... | Selma, Ala. | 100 | 1490 | U | IV |
| WHBC..... | Canton, O. | 250 | 1230 | U | IV |
| WHBF..... | Rock Island, Ill. | 1,000<br>CP-5,000—U | 1270 | U | III-A |
| WHBI..... | Newark, N. J. | 1,000<br>2,500—LS | 1280 | S-WNEW | III-A |
| WHBL..... | Sheboygan, Wis. | 250<br>1,000—LS | 1330 | U | III-B |
| WHBQ..... | Memphis, Tenn. | 100 | 1400 | U | IV |
| WHBU..... | Anderson, Ind. | 250 | 1240 | U | IV |
| WHBY..... | Appleton, Wis. | 250 | 1230 | U | IV |
| WHCU..... | Ithaca, N. Y. | 1,000 | 870 | L-WWL | II |
| WHDF..... | Calumet, Mich. | 250 | 1400 | U | IV |
| WHDH..... | Boston, Mass. | 1,000 | 850 | L-KOA | II |
| WHDL..... | Olean, N. Y. | 250 | 1450 | U | IV |
| WHEB..... | Portsmouth, N. H. | 1,000 | 750 | L-WSB | II |
| WHEC..... | Rochester, N. Y. | 500<br>1,000—LS | 1460 | U | III-B |
| WHFC..... | Cicero, Ill. | 250 | 1450 | U | IV |
| WHIO..... | Dayton, O. | 1,000<br>5,000—LS<br>CP-5,000—U | 1290 | U | III-A |
| WHIP..... | Hammond, Ind. | 5,000 | 1520 | 6:00 a.m. to LS at Buffalo, N. Y. | II |
| WHIS..... | Bluefield, W. Va. | 500<br>1,000—LS | 1440 | U | III-B |
| WHIZ..... | Zanesville, O. | 250 | 1240 | U | IV |
| WHJB..... | Greensburg, Pa. | 250 | 620 | D | IV |
| WHK..... | Cleveland, O. | 5,000 | 1420 | U | III-A |
| WHKC..... | Columbus, O. | 500 | 640 | L-KFI | II |
| WHKY..... | Hickory, N. C. | 250 | 1400 | U | IV |
| WHLB..... | Virginia, Minn. | 250 | 1400 | U | IV |
| WHLD..... | Niagara Falls, N. Y. | 1,000 | 1290 | D | III |
| *WHLN.... | Harlan, Ky. | 250 | 1450 | U | IV |
| WHLS..... | Port Huron, Mich. | 250 | 1450 | U | IV |
| WHMA..... | Anniston, Ala. | 250 | 1450 | U | IV |
| WHN..... | New York, N. Y. | 1,000<br>5,000—LS<br>CP-50,000 | 1050 | U | II |
| WHO..... | Des Moines, Ia. | 50,000 | 1040 | U | I-A |
| WHOM..... | Jersey City, N. J. | 500<br>1,000—LS | 1480 | U | III-B |
| WHOP..... | Hopkinsville, Ky. | 250 | 1230 | U | IV |
| WHP..... | Harrisburg, Pa. | 1,000<br>5,000—LS | 1460 | U | III-B |
| WHUB..... | Cookeville, Tenn. | 250 | 1400 | U | IV |
| *WHYN.... | Holyoke, Mass. | 250 | 1400 | U | IV |
| WIBA..... | Madison, Wis. | 1,000<br>5,000—LS<br>CP-5,000—U | 1310 | U | III-A |
| WIBC..... | Indianapolis, Ind. | 1,000<br>CP-5,000—LS | 1070 | U | II |
| WIBG..... | Glenside, Pa. | 1,000 | 990 | D | II |
| WIBM..... | Jackson, Mich. | 250 | 1450 | U | IV |
| WIBU..... | Poynette, Wis. | 250 | 1240 | U | IV |
| WIBW..... | Topeka, Kan. | 1,000<br>5,000—LS<br>CP-5,000—U | 580 | S-KSAC | III-A |
| WIBX..... | Utica, N. Y. | 250 | 1230 | U | IV |
| WICA..... | Ashtabula, O. | 1,000 | 970 | D | III |
| WICC..... | Bridgeport, Conn. | 500<br>1,000—LS | 600 | U | III-B |
| WIGM..... | Medford, Wis. | 100 | 1490 | U | IV |
| WIL..... | St. Louis, Mo. | 250 | 1230 | U | IV |
| WILL..... | Urbana, Ill. | 5,000 | 580 | D | III |
| WILM..... | Wilmington, Del. | 250 | 1450 | U | IV |
| *WINC.... | Winchester, Va. | 250 | 1400 | U | IV |
| WIND..... | Gary, Ind. | 1,000<br>5,000—LS<br>CP-5,000—U | 560 | U | III-A |
| WING..... | Dayton, O. | 5,000 | 1410 | U | III-A |
| WINN..... | Louisville, Ky. | 100<br>250—LS | 1240 | U | IV |
| WINS..... | New York, N. Y. | 1,000<br>CP-50,000 | 1000 | L-WCFL<br>CP-U | II |
| WINX..... | Washington, D. C. | 250 | 1340 | U | IV |
| WIOD..... | Miami, Fla. | 1,000<br>CP-5,000 | 610 | U | III-A |
| WIP..... | Philadelphia, Pa. | 5,000 | 610 | U | III-A |
| WIRE..... | Indianapolis, Ind. | 5,000 | 1430 | U | III-A |
| WIS..... | Columbia, S. C. | 1,000<br>5,000—LS<br>CP-5,000—U | 560 | U | III-A |
| WISE..... | Asheville, N. C. | 250 | 1400 | U | IV |
| *WISH..... | Indianapolis, Ind. | 1,000<br>5,000—LS | 1310 | U | III-B |
| WISN..... | Milwaukee, Wis. | 250<br>1,000—LS<br>CP-5,000 | 1150 | U | III-A |
| WITH..... | Baltimore, Md. | 250 | 1230 | U | IV |
| WIZE..... | Springfield, O. | 100 | 1340 | U | IV |
| WJAC..... | Johnstown, Pa. | 250 | 1400 | U | IV |
| WJAG..... | Norfolk, Neb. | 1,000<br>(Proposed 780) | 1090 | L-WBAL KTHS | II |
| WJAR..... | Providence, R. I. | 1,000<br>5,000—LS<br>CP-5,000—U | 920 | U | III-A |
| WJAS..... | Pittsburgh, Pa. | 1,000<br>5,000—LS<br>CP-5,000—U | 1320 | U | III-A |

# SUCH Popularity MUST BE DESERVED!

**MEMBER SOUTH CENTRAL QUALITY NETWORK**

KWKH—Shreveport
KTBS—Shreveport
KARK—Little Rock
WJDX—Jackson
WMC—Memphis
WSMB—New Orleans

Night Coverage: Primary — 169,000; Secondary — 201,150; Columbia audit all areas total — 425,683 radio families.

## KWKH, as a Class I-B 50,000 Watt Station Attains Maximum Coverage of One of the Nation's Richest Markets

KWKH boasts of many new friends in a greater area, as shown on the map above, which is the new CBS audit of night-time coverage. Not only lady friends, please, because there's just hundreds of thousands of soldiers all around us. A great portion of Uncle Sam's defense expenditures has been concentrated in the KWKH coverage area. And so, with this new CBS listening audit, we are more popular than ever . . . AND SUCH POPULARITY MUST BE DESERVED.

*KWKH moves to 1130 on March 29, 1941*

REPRESENTED BY THE BRANHAM CO.

BASE MAP copyrighted by the Columbia Broadcasting System, Inc., 1941.

**CBS**
▲
**50,000 Watts**
▲
**SHREVEPORT LOUISIANA**

# K W K H

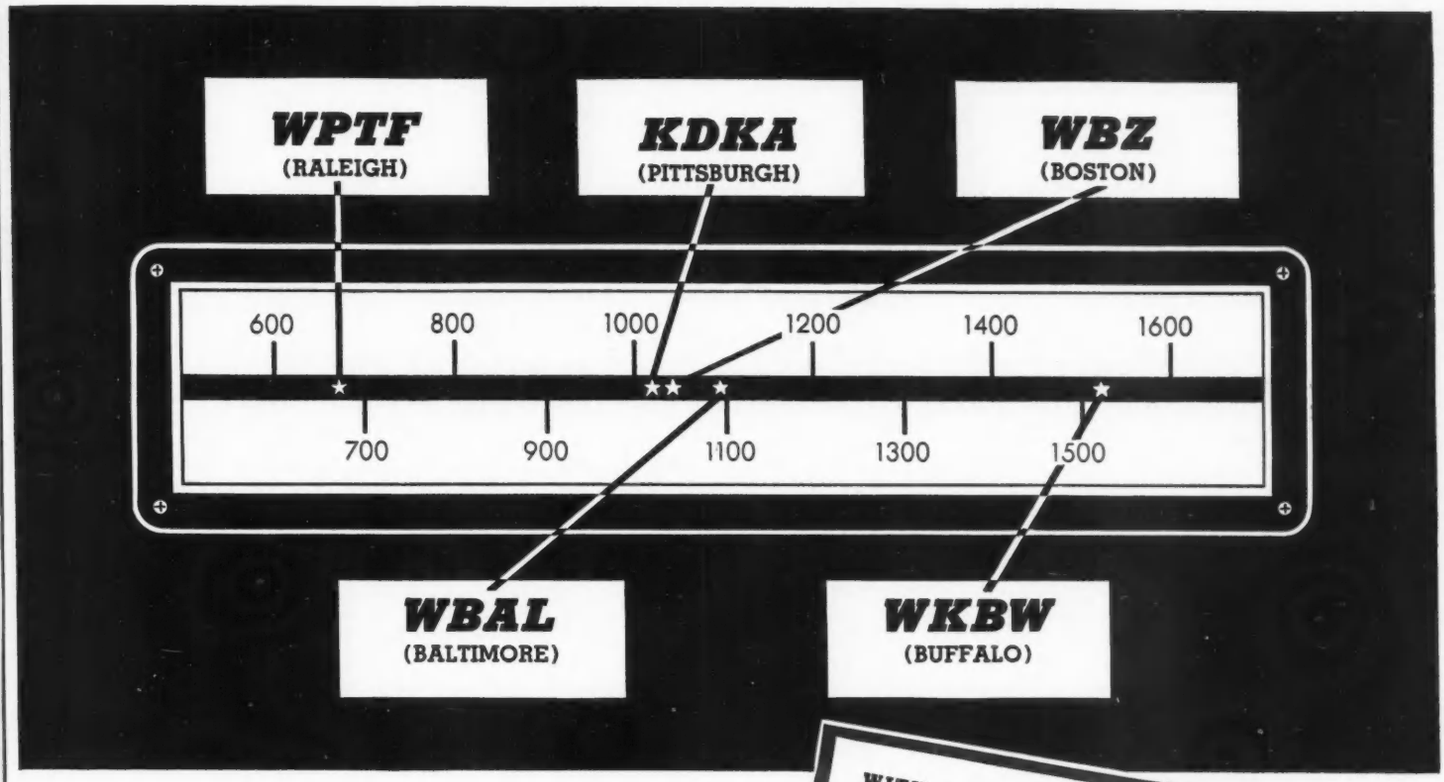
*A Shreveport Times Station*

| Call Letters | Location | Power in Watts | New Frequency in Kc. | Time Designation | Class |
|---|---|---|---|---|---|
| WJAX..... | Jacksonville, Fla. | 1,000<br>5,000—LS | 930 | U | III-A |
| WJBC..... | Bloomington, Ill. | 250 | 1230 | U | IV |
| WJBK ..... | Detroit, Mich. | 250 | 1490 | U | IV |
| WJBO..... | Baton Rouge, La. | 1,000<br>CP-5,000 | 1150 | U | III-A |
| WJBW..... | New Orleans, La. | 250 | 1230 | U | IV |
| WJBY..... | Gadsden, Ala. | 250 | 1240 | U | IV |
| WJDX..... | Jackson, Miss. | 1,000<br>5,000—LS | 1300 | U | III-A |
| WJEJ..... | Hagerstown, Md. | 250 | 1240 | U | IV |
| WJHL..... | Johnson City, Tenn. | 1,000 | 910 | U | III-B |
| WJHO..... | Opelika, Ala. | 100<br>250—LS | 1400 | U | IV |
| WJHP..... | Jacksonville, Fla. | 250 | 1320 | U | IV |
| WJIM..... | Lansing, Mich. | 250 | 1240 | U | IV |
| WJJD..... | Chicago, Ill. | 20,000 | 1160 | L-KSL | II |
| WJLB..... | Detroit, Mich. | 250 | 1400 | U | IV |
| WJLS..... | Beckley, W. Va. | 250 | 1240 | U | IV |
| WJMC..... | Rice Lake, Wis. | 250 | 1240 | U | IV |
| WJMS..... | Ironwood, Mich. | 250 | 1450 | U | IV |
| WJNO..... | W. Palm Beach, Fla. | 250 | 1230 | U | IV |
| WJOB..... | Hammond, Ind. | 100 | 1230 | U | IV |
| WJPF..... | Herrin, Ill. | 250 | 1340 | U | IV |
| WJPR..... | Greenville, Miss. | 250 | 1340 | U | IV |
| WJR..... | Detroit, Mich. | 50,000 | 760 | U | I-A |
| WJRD..... | Tuscaloosa, Ala. | 250 | 1230 | U | IV |
| WJSV..... | Washington, D. C. | 50,000 | 1500 | U | I-B |
| WJTN..... | Jamestown, N. Y. | 250 | 1240 | U | IV |
| WJW..... | Akron, O. | 250 | 1240 | U | IV |
| WJZ..... | New York, N. Y. | 50,000 | 770 | U | I-A |
| *WJZM.... | Clarksville, Tenn. | 250 | 1400 | U | IV |
| WKAQ..... | San Juan, Puerto Rico | 1,000<br>CP-5,000 | †620 | U | III-A |
| WKAR..... | East Lansing, Mich. | 5,000 | 870 | D | II |
| WKAT..... | Miami Beach, Fla. | 1,000 | 1360 | U | III-B |
| WKBB..... | Dubuque, Ia. | 250 | 1490 | U | IV |
| WKBH..... | LaCrosse, Wis. | 1,000<br>CP-5,000 | 1410 | U | III-A |
| WKBN..... | Youngstown, O. | 500<br>1,000—LS | 570 | SH-WOSU | III-B |
| WKBO..... | Harrisburg, Pa. | 250 | 1230 | U | IV |
| WKBV..... | Richmond, Ind. | 100 | 1490 | U | IV |
| WKBW..... | Buffalo, N. Y. | 5,000<br>CP-50,000 | 1520 | U | II<br>I-B |
| WKBZ..... | Muskegon, Mich. | 250 | 1490 | U | IV |
| WKEU..... | Griffin, Ga. | 100 | 1450 | U | IV |
| WKIP..... | Poughkeepsie, N. Y. | 1450 | 250 | U | IV |
| *WKMO.... | Kokomo, Ind. | 250 | 1400 | U | IV |
| WKNE..... | Keene, N. H. | 5,000 | 1290 | U | III-A |
| WKNY..... | Kingston, N. Y. | 250 | 1490 | U | IV |
| WKOK..... | Sunbury, Pa. | 250 | 1240 | U | IV |
| WKPA..... | New Kensington, Pa. | 250 | 1150 | D | IV |
| WKPT..... | Kingsport, Tenn. | 250 | 1400 | U | IV |
| WKRC..... | Cincinnati, O. | 1,000<br>5,000—LS | 550 | U | III-B |
| *WKRO.... | Cairo, Ill. | 250 | 1490 | U | IV |
| WKST..... | New Castle, Pa. | 1,000 | 1280 | D<br>CP-U | III |
| *WKWK.... | Wheeling, W. Va. | 250 | 1400 | U | IV |
| WKY..... | Oklahoma City, Okla. | 1,000<br>5,000—LS<br>CP-5,000—U | 930 | U | III-A |
| WKZO..... | Kalamazoo, Mich. | 1,000<br>CP-5,000—LS | 590 | U | III-B |
| WLAC..... | Nashville, Tenn. | 5,000<br>(Proposed 50,000) | 1510 | U | II<br>I-B |
| WLAG..... | La Grange, Ga. | 250 | 1240 | U | IV |
| WLAK..... | Lakeland, Fla. | 250 | 1340 | U | IV |
| WLAP..... | Lexington, Ky. | 250 | 1450 | U | IV |
| WLAV..... | Grand Rapids, Mich. | 250 | 1340 | U | IV |
| WLAW..... | Lawrence, Mass. | 5,000 | 680 | U | II |
| WLB..... | Minneapolis, Minn. | 5,000 | 770 | S-WCAL<br>(2/3 daytime) | II |
| WLBC..... | Muncie, Ind. | 250 | 1340 | U | IV |
| WLBJ..... | Bowling Green, Ky. | 250 | 1340 | U | IV |
| WLBL..... | Stevens Point, Wis. | 5,000 | 930 | D | III |
| WLBZ..... | Bangor, Me. | 500<br>1,000—LS<br>CP-5,000—U | 620 | U | III-A |
| WLEU..... | Erie, Pa. | 250 | 1450 | U | IV |
| WLLH..... | Lowell, Mass. | 250 | 1400 | U | IV |
| WLNH..... | Laconia, N. H. | 250 | 1340 | U | IV |
| WLOF..... | Orlando, Fla. | 250 | 1230 | U | IV |
| WLOG..... | Logan, W. Va. | 100 | 1230 | U | IV |
| WLOK..... | Lima, O. | 250 | 1240 | U | IV |

| Call Letters | Location | Power in Watts | New Frequency in Kc. | Time Designation | Class |
|---|---|---|---|---|---|
| WLOL..... | Minneapolis, Minn. | 1,000 | 1330 | U | III-B |
| WLPM..... | Suffolk, Va. | 250 | 1450 | U | IV |
| WLS..... | Chicago, Ill. | 50,000 | 890 | S-WENR | I-A |
| WLTH..... | New York, N. Y. | 500 | 1430 | S-WARD<br>WBBC,<br>WVFW | III-B |
| WLVA..... | Lynchburg, Va. | 250 | 1230 | U | IV |
| WLW..... | Cincinnati, O. | 50,000 | 700 | U | I-A |
| WMAL..... | Washington, D. C. | 5,000 | 630 | U | III-A |
| WMAM.... | Marinette, Wis. | 250 | 570 | D | IV |
| WMAN..... | Mansfield, O. | 250 | 1400 | U | IV |
| WMAQ..... | Chicago, Ill. | 50,000 | 670 | U | I-A |
| WMAS..... | Springfield, Mass. | 250 | 1450 | U | IV |
| *WMAW... | Worcester, Mass. | 250 | 1230 | U | IV |
| WMAZ..... | Macon, Ga. | 250<br>5,000—LS<br>(Proposed 5,000—U) | 940 | U | II |
| WMBD..... | Peoria, Ill. | 1,000<br>5,000—LS | 1470 | U | III-B |
| WMBG..... | Richmond, Va. | 5,000 | 1380 | U | III-A |
| WMBH..... | Joplin, Mo. | 250 | 1450 | U | IV |
| WMBI..... | Chicago, Ill. | 5,000 | 1110 | L-WBT,<br>S-WCBD | I |
| WMBO..... | Auburn, N. Y. | 250 | 1340 | U | IV |
| WMBR..... | Jacksonville, Fla. | 250 | 1400 | U | IV |
| WMBS..... | Uniontown, Pa. | 250<br>CP-1,000 | †590 | U | III-B |
| WMC..... | Memphis, Tenn. | 1,000<br>5,000—LS | 790 | U | III-A |
| WMCA..... | New York, N. Y. | 1,000<br>5,000—LS | 570 | U | III-A |
| *WMDF.... | Greenwood, S. C. | 250 | 1450 | U | IV |
| WMEX..... | Boston, Mass. | 5,000 | 1510 | U | II |
| WMFD..... | Wilmington, N. C. | 250 | 1400 | U | IV |
| WMFF..... | Plattsburg, N. Y. | 250 | 1340 | U | IV |
| WMFG..... | Hibbing, Minn. | 250 | 1240 | U | IV |
| WMFJ..... | Daytona Beach, Fla. | 250 | 1450 | U | IV |
| WMFR..... | High Point, N. C. | 250 | 1230 | U | IV |
| WMGA..... | Moultrie, Ga. | 250 | 1400 | U | IV |
| WMIN..... | St. Paul, Minn. | 250 | 1400 | U | IV |
| WMJM.... | Cordele, Ga. | 100<br>250—LS | 1490 | U | IV |
| WMMN.... | Fairmont, W. Va. | 1,000<br>5,000—LS<br>CP-5,000—U | 920 | U | III-A |
| WMOB..... | Mobile, Ala. | 250 | 1230 | U | IV |
| WMOG.... | Brunswick, Ga. | 100<br>250—LS | 1490 | U | IV |
| WMPC..... | Lapeer, Mich. | 250 | 1230 | SH | IV |
| WMPS..... | Memphis, Tenn. | 500<br>1,000—LS | 1460 | U | III-B |
| WMRC..... | Greenville, S. C | 250 | 1490 | U | IV |
| *WMRF.... | Lewistown, Pa. | 250 | 1490 | U | IV |
| WMRN..... | Marion, O. | 250 | 1490 | U | IV |
| WMRO..... | Aurora, Ill. | 250 | 1280 | D | IV |
| WMSD..... | Muscle Shoals City, Ala. | 250 | 1450 | U | IV |
| WMSL..... | Decatur, Ala. | 250 | 1400 | U | IV |
| WMT..... | Cedar Rapids, Ia. | 1,000<br>5,000—LS<br>CP-5,000—U | 600 | U | III-A |
| *WMUR.... | Manchester, N. H. | 1,000<br>5,000—LS | 610 | U | III-B |
| *WMVA.... | Martinsville, Va. | 100<br>250—LS | 1450 | U | IV |
| WMWH... | Augusta, Ga. | 250 | 1450 | U | IV |
| *WNAB.... | Bridgeport, Conn. | 250 | 1450 | U | IV |
| WNAC..... | Boston, Mass. | 1,000<br>5,000—LS<br>CP-5,000—U | 1260 | U | III-A |
| WNAD..... | Norman, Okla. | 1,000 | 640 | D | II |
| WNAX..... | Yankton, S. D. | 1,000<br>5,000—LS<br>CP-5,000—U | 570 | U | III-A |
| WNBC..... | New Britain, Conn. | 1,000<br>CP-5,000—LS | 1410 | U | III-B |
| WNBF..... | Binghamton, N. Y. | 250 | 1490 | U | IV |
| WNBH..... | New Bedford, Mass. | 250 | 1340 | U | IV |
| WNBZ..... | Saranac Lake, N. Y. | 100 | 1320 | D | IV |
| WNEL..... | San Juan, Puerto Rico | 1,000<br>2,500—LS<br>CP-5,000—U | 1320 | U | III-A |
| WNEW..... | New York, N. Y. | 1,000<br>5,000—LS<br>CP-5,000—U | 1280 | S-WHBI | III-A |
| WNLC..... | New London, Conn. | 250 | 1490 | U | IV |
| WNOE..... | New Orleans, La. | 250 | 1450 | U | IV |
| WNOX..... | Knoxville, Tenn. | 1,000<br>5,000—LS | 990 | U | II |
| WNYC..... | New York, N. Y. | 1,000 | 830 | L-WCCO | II |

***THESE STATIONS ARE NOW OPERATING OR INSTALLING***

# Westinghouse 50-HG Transmitters

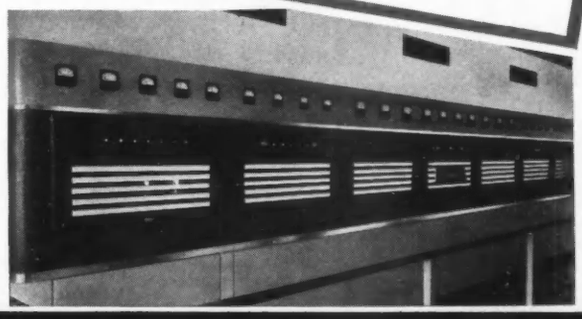



**WITH THESE OPERATING ADVANTAGES:** Air-cooled tubes in all stages • Extremely low operating costs • Metal rectifiers throughout, except main high-voltage rectifier • Inductive neutralization of the power amplifier • Equalized feedback • Compressed gas condensers • Complete elimination of fuses • Spare rectifier tube at operating temperature • Ease of adjustment • Unit construction throughout • Full automatic control • Relatively low plate voltages • Conservative operation of all tubes.

The Westinghouse 50-HG Broadcast Transmitter is a 50 kilowatt set built for broadcasting stations by a company that has been engaged in practical radio station operation since the industry started. The 50-HG first demonstrated its economy, reliability, and operating convenience in Pittsburgh's KDKA early in 1940. Since then four other big time radio stations have chosen 50-HG performance—WBZ, WPTF, WBAL and WKBW. Out of four stations granted 50,000-watt permits in 1940, THREE selected the Westinghouse 50-HG Transmitter.

UNDIVIDED RESPONSIBILITY — In addition to complete broadcast transmitters, Westinghouse manufactures ALL the other equipment needed for transmitting station operation. This service includes station lighting, tower lighting, antenna phasing and tuning, and all auxiliary power equipment.

Get in touch with your nearest Westinghouse office for complete information on Westinghouse COMPLETE broadcast equipment. Whatever your need, Westinghouse has the experience and apparatus to fill it exactly.



I-08035

# Westinghouse

## BROADCAST EQUIPMENT

| Call Letters | Location | Power in Watts | New Frequency in Kc. | Time Designation | Class |
|---|---|---|---|---|---|
| WOAI..... | San Antonio, Tex. | 50,000 | 1200 | U | I-A |
| WOC..... | Davenport, Ia. | 250 | 1450 | U | IV |
| WOCB..... | Hyannis, Mass. | 250 | 1240 | U | IV |
| WOI..... | Ames, Ia. | 5,000 | 640 | D | II |
| WOKO..... | Albany, N. Y. | 500<br>1,000—LS | 1460 | U | III-B |
| WOL..... | Washington, D. C. | 1,000 | 1260 | U | III-A |
| WOLF..... | Syracuse, N. Y. | 250 | 1490 | U | IV |
| WOLS..... | Florence, S. C. | 250 | 1230 | U | IV |
| WOMI..... | Owensboro, Ky. | 250 | 1490 | U | IV |
| WOMT..... | Manitowoc, Wis. | 100 | 1240 | U | IV |
| WOOD..... | Grand Rapids, Mich. | 500<br>(Proposed 5,000) | 1300 | S-WASH | III-B<br>III-A |
| WOPI..... | Bristol, Tenn. | 250 | 1490 | U | IV |
| WOR..... | New York, N. Y. | 50,000 | 710 | U | I-B |
| WORC..... | Worcester, Mass. | 500<br>CP-1,000 | 1310 | U | III-B |
| WORD..... | Spartanburg, S. C. | 250 | 1400 | U | IV |
| WORK..... | York, Pa. | 1,000 | 1350 | U | III-B |
| WORL..... | Boston, Mass. | 1,000 | 950 | D | III |
| WOSU..... | Columbus, O. | 1,000 | 570 | SH-WKBN | III-A |
| WOV..... | New York, N. Y. | 5,000<br>CP-10,000 | 1130 | U | I-B |
| WOW..... | Omaha, Neb. | 5,000 | 590 | U | III-A |
| WOWO..... | Ft. Wayne, Ind. | 10,000<br>(Proposed 50,000) | 1190 | SH<br>(Proposed U) | I-B |
| WPAB..... | Ponce, Puerto Rico | 1,000 | 1370 | U | III-A |
| WPAD..... | Paducah, Ky. | 250 | 1450 | U | IV |
| WPAR..... | Parkersburg, W. Va. | 100<br>CP-250 | 1450 | U | IV |
| *WPAT..... | Paterson, N. J. | 1,000 | 930 | D | III |
| WPAX..... | Thomasville, Ga. | 250 | 1240 | U | IV |
| WPAY..... | Portsmouth, O. | 100<br>CP-250 | 1400 | U | IV |
| WPEN..... | Philadelphia, Pa. | 1,000<br>CP-5,000 | 950 | U | III-A |
| *WPER..... | Deland, Fla. | 250 | 1340 | U | IV |
| WPIC..... | Sharon, Pa. | 1,000 | 790 | D | III |
| WPID..... | Petersburg, Va. | 250 | 1240 | U-Except Sunday when WBBL operates | IV |
| WPRA..... | Mayaguez, Puerto Rico | 1,000<br>2,500—LS | 790 | U | III-A |
| WPRO..... | Providence, R. I. | 5,000 | 630 | U | III-A |
| WPRP..... | Ponce, Puerto Rico | 250<br>CP-1,000—N<br>CP-5,000—LS | 1420<br>†1520 | U | IV<br>II |
| WPTF..... | Raleigh, N. C. | 5,000<br>CP-50,000 | 680 | U | II |
| WQAM..... | Miami, Fla. | 1,000 | 560 | U | III-A |
| WQAN..... | Scranton, Pa. | 500<br>1,000—LS | 910 | S-WGBI | III-B |
| WQBC..... | Vicksburg, Miss. | 1,000 | 1390 | D | III |
| WQXR..... | New York, N. Y. | 5,000<br>(Proposed 10,000) | 1560 | U | II |
| WRAK..... | Williamsport, Pa. | 250 | 1400 | U | IV |
| WRAL..... | Raleigh, N. C. | 250 | 1240 | U | IV |
| WRAW..... | Reading, Pa. | 250 | 1340 | U | IV |
| WRBL..... | Columbus, Ga. | 250 | 1230 | U | IV |
| WRC..... | Washington, D. C. | 1,000<br>5,000—LS<br>CP-5,000—U | 980 | U | III-A |
| WRDO..... | Augusta, Me. | 100 | 1400 | U | IV |
| WRDW..... | Augusta, Ga. | 250 | 1490 | U | IV |
| WREC..... | Memphis, Tenn. | 1,000<br>5,000—LS<br>CP-5,000—U | 600 | U | III-A |
| WREN..... | Lawrence, Kan. | 1,000<br>5,000—LS<br>CP-5,000 | 1250 | S-KFKU | III-A |
| WRGA..... | Rome, Ga. | 250 | 1490 | U | IV |
| WRJN..... | Racine, Wis. | 250 | 1400 | U | IV |
| *WRLC..... | Toccoa, Ga. | 250 | 1450 | U | IV |
| WRNL..... | Richmond, Va. | 1,000 | 910 | U | III-B |
| WROK..... | Rockford, Ill. | 500<br>1,000—LS | 1440 | U | III-B |
| WROL..... | Knoxville, Tenn. | 500<br>1,000—LS | 620 | U | III-B |
| WRR..... | Dallas, Tex. | 500<br>CP-5,000 | 1310 | U | III-A |
| WRUF..... | Gainesville, Fla. | 5,000 | 850 | L-KOA | II |
| WRVA..... | Richmond, Va. | 50,000 | 1140 | U | I-B |
| WSAI..... | Cincinnati, O. | 1,000<br>5,000—LS<br>CP-5,000—U | 1360 | U | III-A |
| WSAJ..... | Grove City, Pa. | 100 | 1340 | SH | IV |
| WSAM..... | Saginaw, Mich. | 100 | 1230 | SH | IV |
| WSAN..... | Allentown, Pa. | 500 | 1470 | S-WCBA | III-B |
| WSAR..... | Fall River, Mass. | 1,000 | 1480 | U | III-B |
| WSAU..... | Wausau, Wis. | 250 | 1400 | U | IV |
| WSAV..... | Savannah, Ga. | 250 | 1340 | U | IV |
| WSAY..... | Rochester, N. Y. | 250 | 1240 | U | IV |
| WSAZ..... | Huntington, W. Va. | 250<br>1,000—LS<br>CP-1,000—U | 930 | SH | III-B |
| WSB..... | Atlanta, Ga. | 50,000 | 750 | U | I-A |
| WSBC..... | Chicago, Ill. | 250 | 1240 | SH-WCRW, WEDC | IV |
| †WSBT..... | South Bend, Ind. | 250<br>500—LS<br>CP-500—U | †960 | SH<br>U | III-B |
| WSFA..... | Montgomery, Ala. | 500<br>1,000—LS | 1440 | U | III-B |
| WSGN..... | Birmingham, Ala. | 250<br>CP-1,000—U | 1340<br>†610 | U | IV<br>III-B |
| WSIX..... | Nashville, Tenn. | 250<br>CP-1,000—N<br>CP-5,000—LS | 1240<br>†980 | U | IV |
| WSJS..... | Winston-Salem, N. C. | 250<br>CP-1,000 | †600 | U | III-B |
| WSKB..... | McComb, Miss. | 250 | 1230 | U | IV |
| WSLB..... | Ogdensburg, N. Y. | 250 | 1400 | U | IV |
| WSLI..... | Jackson, Miss. | 250 | 1450 | U | IV |
| WSLS..... | Roanoke, Va. | 250 | 1490 | U | IV |
| WSM..... | Nashville, Tenn. | 50,000 | 650 | U | I-A |
| WSMB..... | New Orleans, La. | 5,000 | 1350 | U | III-A |
| WSNJ..... | Bridgeton, N. J. | 250 | 1240 | U | IV |
| WSOC..... | Charlotte, N. C. | 100<br>250—LS | 1240 | U | IV |
| WSOO..... | Sault Ste. Marie, Mich. | 100 | 1230 | U | IV |
| WSOY..... | Decatur, Ill. | 250 | 1340 | U | IV |
| WSPA..... | Spartanburg, S. C. | 1,000<br>CP-1,000—N<br>CP-5,000—LS | 950 | D<br>CP-U | III-B |
| WSPB..... | Sarasota, Fla. | 250 | 1450 | U | IV |
| WSPD..... | Toledo, O. | 5,000 | 1370 | U | III-A |
| WSPR..... | Springfield, Mass. | 250<br>500—LS<br>CP-500—U | †1270 | SH<br>CP-U | III-B |
| WSTP..... | Salisbury, N. C. | 250 | 1490 | U | IV |
| WSTV..... | Steubenville, O. | 250 | 1340 | SH-WSAJ | IV |
| WSUI..... | Iowa City, Ia. | 1,000<br>5,000—LS | 910 | U | III-A |
| WSUN..... | St. Petersburg, Fla. | 5,000 | 620 | U | III-A |
| WSVA..... | Harrisonburg, Va. | 500<br>CP-1,000 | 550 | D | III |
| WSVS..... | Buffalo, N. Y. | 50 | 1400 | SH-D-WBNY | IV |
| WSYB..... | Rutland, Vt. | 250 | 1490 | U | IV |
| WSYR..... | Syracuse, N. Y. | 1,000 | 570 | U | III-A |
| WTAD..... | Quincy, Ill. | 1,000 | 930 | U | III-B |
| WTAG..... | Worcester, Mass. | 1,000<br>5,000—LS<br>CP-5,000—U | 580 | U | III-A |
| WTAL..... | Tallahassee, Fla. | 100<br>250—LS | 1340 | U | IV |
| WTAM..... | Cleveland, O. | 50,000 | 1100 | U | I-A |
| WTAQ..... | Green Bay, Wis. | 5,000 | 1360 | U | III-A |
| WTAR..... | Norfolk, Va. | 5,000 | 790 | U | III-A |
| WTAW..... | College Station, Tex. | 500<br>CP-1,000 | 1150 | SH-D-KTBC | III |
| WTAX..... | Springfield, Ill. | 100 | 1240 | U | IV |
| WTBO..... | Cumberland, Md. | 250 | 820 | L-WFAA, WBAP | II |
| WTCM..... | Traverse City, Mich. | 250 | 1400 | U | IV |
| WTCN..... | Minneapolis, Minn. | 1,000<br>5,000—LS | 1280 | U | III-A |
| WTEL..... | Philadelphia, Pa. | 100 | 1340 | S-WHAT | IV |
| WTHT..... | Hartford, Conn. | 250 | 1230 | U | IV |
| WTIC..... | Hartford, Conn. | 50,000 | 1080 | U | I-B |
| WTJS..... | Jackson, Tenn. | 250<br>CP-1,000 | †1390 | U | III-B |
| WTMA..... | Charleston, S. C. | 250<br>CP-1,000 | †1250 | U | IV |
| WTMC..... | Ocala, Fla. | 100 | 1490 | U | IV |
| WTMJ..... | Milwaukee, Wis. | 1,000<br>5,000—LS<br>CP-5,000—U | 620 | U | III-A |
| WTMV..... | E. St. Louis, Ill. | 250 | 1490 | U | IV |
| WTNJ..... | Trenton, N. J. | 500 | 1310 | S-WCAM, WCAP | III-B |
| WTOC..... | Savannah, Ga. | 1,000<br>5,000—LS | 1290 | U | III-A |
| WTOL..... | Toledo, O. | 250 | 1230 | U | IV |
| WTRC..... | Elkhart, Ind. | 250 | 1340 | U | IV |
| WTRY..... | Troy, N. Y. | 1,000 | 980 | U | III-B |
| WTSP..... | St. Petersburg, Fla. | 250<br>CP-500<br>1,000—LS | †1380 | U | III-B |
| WVFW..... | Brooklyn, N. Y. | 500 | 1430 | S-WARD WBBC, WLTH | III-B |
| *WWDC..... | Washington, D. C. | 250 | 1450 | U | IV |
| WWJ..... | Detroit, Mich. | 1,000<br>5,000—LS<br>CP-5,000—U | 950 | U | III-A |
| WWL..... | New Orleans, La. | 50,000 | 870 | U | I-A |
| WWNC..... | Asheville, N. C. | 1,000 | 570 | U | III-A |
| WWNY..... | Watertown, N. Y. | 500 | 1300 | D | III |
| WWRL..... | Woodside, N. Y. | 250<br>(Proposed 500) | 1600 | S-WCNW | IV<br>III-B |
| WWSR..... | St. Albans, Vt. | 1,000 | 1420 | D | III |
| WWSW..... | Pittsburgh, Pa. | 250 | 1490 | U | IV |
| WWVA..... | Wheeling, W. Va. | 5,000<br>(Proposed 50,000) | 1170 | SH<br>(Proposed U) | II<br>I-B |
| WXYZ..... | Detroit, Mich. | 5,000 | 1270 | U | III-A |
| *NEW..... | Stamford, Conn. | 250 | 1400 | U | IV |
| *NEW..... | Endicott, N. Y. | 250 | 1450 | U | IV |
| *NEW..... | Natchez, Miss. | 250 | 1490 | U | IV |

# NEW SPOT ON THE DIAL

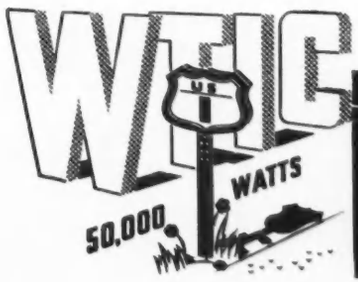
# BUT..

## the same friendly, profitable audience in AMERICA'S No. 1 MARKET

WAVE-LENGTH changes and the necessity for new dial settings won't faze the friendly people in the profitable Southern New England market. They'll turn to WTIC as a matter of course for, during the more than 15 years of WTIC's existence, these folks have developed an "unbreakable" listening habit.

These listeners enjoy the entertainment that WTIC affords them and they respect the services that it renders just as WTIC respects, and enjoys serving them.

You won't find a better market for your product than this rich Southern New England area, especially now that additional millions of dollars are flowing into vital defense industries. And you won't find a better means than WTIC to get your message across in this territory.




**DIRECT ROUTE TO AMERICA'S NO. 1 MARKET**

*The Travelers Broadcasting Service Corporation*
*Member of NBC Network and Yankee Network*

Representatives: WEED & COMPANY, New York, Chicago, Detroit, San Francisco

# Log of U. S. Broadcast Stations

**Frequency List Showing New Assignments Effective March 29, 1941 Under the Havana Treaty**

**(As approved by the United States Government)**

**ABBREVIATIONS**

**U—Unlimited Time. D—Daytime. N—Night Time. S—Shares Time. SH—Specified Hours. LS—Power Until Local Sunset. L—Limited Time With Dominant Station. CP—Construction Permit. DA—Directional Antenna. *—CP for New Station. †—CP for New Frequency.**

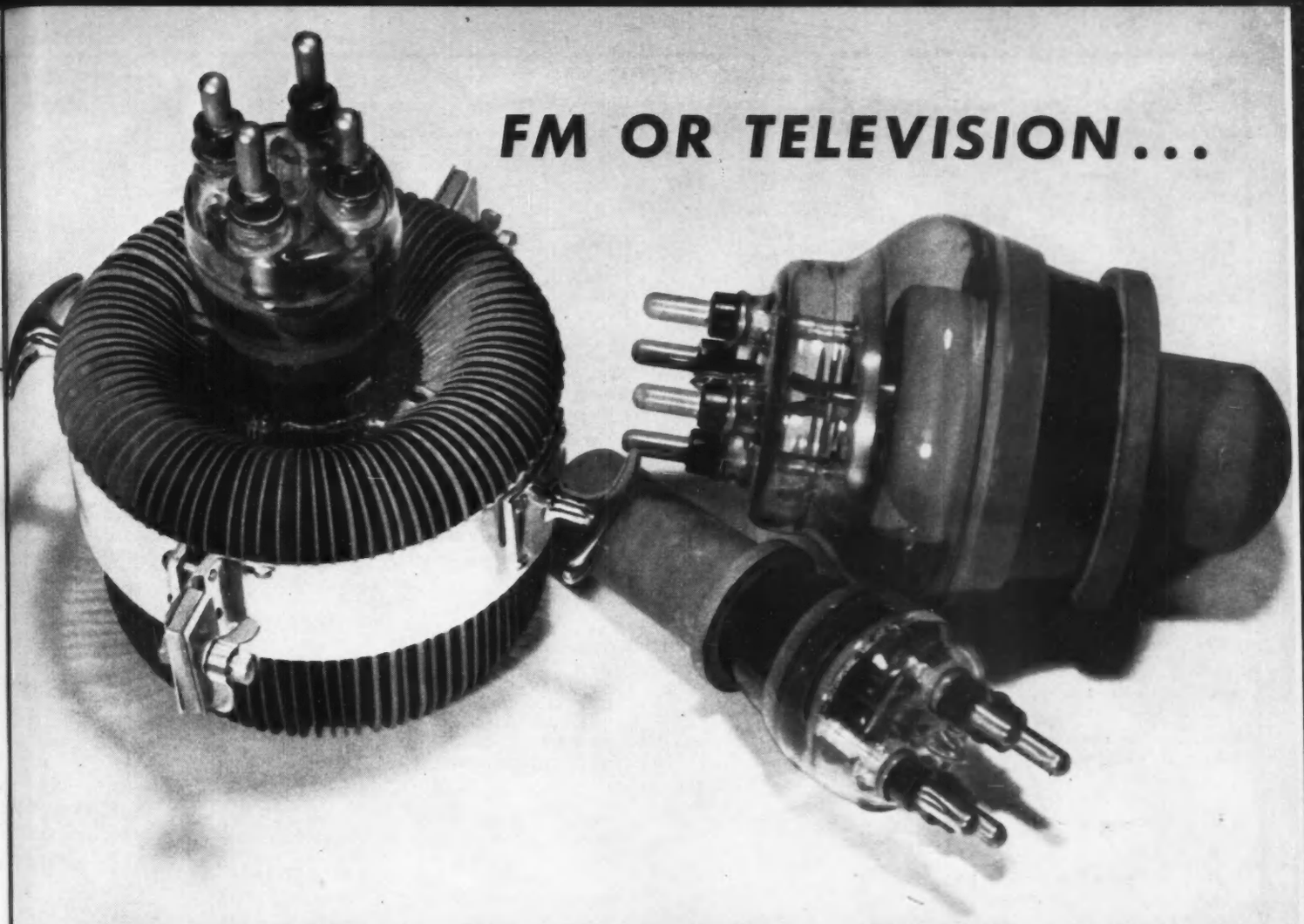
**EXPLANATION**

**Powers shown are those at present authorized. Classifications of stations, however, govern potential power allowed. Many stations already are installing new equipment which will qualify them for the higher power permissible under their classifications. For classes and potential powers see definitions on Page 36. All powers are U unless otherwise designated. Where LS and D powers are shown, the upper designation is the night power. Radiation in terms of millivolts-per-meter (mv/m) indicates the average (RMS) unattenuated field strength at one mile for 1,000 watts.**

*(Corrected to March 20, 1941)*

| Call Letters | Location | Power in Watts | Radiation mv/m | Time Designation | Class |
|---|---|---|---|---|---|
| **550 KILOCYCLES** | | | | | |
| KOY | Phoenix, Ariz. | 1,000 | 175 | U | III-A |
| KSD | St. Louis, Mo. | 1,000<br>5,000—LS | 200<br>DA-N | U | III-B |
| WGR | Buffalo, N. Y. | 1,000<br>5,000—LS | 175<br>DA-N | U | III-B |
| KFYR | Bismarck, N. D. | 1,000<br>5,000—LS<br>CP-5,000—U | 210<br>DA-N | U | III-A |
| WKRC | Cincinnati, O. | 1,000<br>5,000—LS | DA | U | III-B |
| KOAC | Corvallis, Ore. | 1,000<br>CP-5,000—LS | DA | U | III-A |
| KTSA | San Antonio, Tex. | 1,000<br>5,000—LS | 175 | U | III-A |
| WDEV | Waterbury, Vt. | 1,000 | 180 | D | III |
| WSVA | Harrisonburg, Va. | 500—D<br>CP-1,000—D | 175 | D | III |
| **560 KILOCYCLES** | | | | | |
| KSFO | San Francisco, Cal. | 1,000<br>5,000—LS | 175 | U | III-A |
| KLZ | Denver, Colo. | 5,000 | DA | U | III-A |
| WQAM | Miami, Fla. | 1,000 | 175 | U | III-A |
| WIND | Gary, Ind. | 1,000<br>5,000—LS<br>CP-5,000—U | DA | U | III-A |
| WGAN | Portland, Me. | 5,000 | 175<br>DA | U | III-A |
| KWTO | Springfield, Mo. | 5,000<br>1,000 (5 a.m. to 6 a.m.) | 190 | D (5 a.m. to local sunset) | III |
| WFIL | Philadelphia, Pa. | 1,000 | 175 | U | III-A |
| WIS | Columbia, S. C. | 1,000<br>5,000—LS<br>CP-5,000—U | 175<br>DA-N | U | III-A |
| KFDM | Beaumont, Tex. | 1,000 | 175 | U | III-A |
| **570 KILOCYCLES** | | | | | |
| KMTR | Los Angeles, Cal. | 1,000 | 175 | U | III-A |
| WMCA | New York City | 1,000<br>5,000—LS | DA | U | III-A |
| WSYR | Syracuse, N. Y. | 1,000 | DA | U | III-A |
| WWNC | Asheville, N. C. | 1,000 | 175 | U | III-A |
| WOSU | Columbus, O. | 1,000 | 175 | SH-WKBN | III-A |
| WKBN | Youngstown, O. | 500<br>1,000—LS | 175 | SH-WOSU | III-B |
| WNAX | Yankton, S. D. | 1,000<br>5,000—LS<br>CP-5,000—U | 190<br>DA-N | U | III-A |
| KGKO | Fort Worth, Tex. | 1,000<br>5,000—LS<br>CP-5,000—U | 180<br>DA-N | U | III-A |
| †KUTA | Salt Lake City, Utah | 250<br>CP-1,000 | DA | U | III-B |
| KVI | Tacoma, Wash. | 5,000 | 190 | U | III-A |
| WMAM | Marinette, Wis. | 250 | 175 | D | IV |
| **580 KILOCYCLES** | | | | | |
| KMJ | Fresno, Cal. | 5,000 | 175 | U | III-A |
| WDBO | Orlando, Fla. | 5,000 | 175<br>DA-N | U | III-A |
| WILL | Urbana, Ill. | 5,000 | DA | D | III |
| KSAC | Manhattan, Kan. | 500<br>1,000—LS | 175 | S-WIBW | III-B |
| WIBW | Topeka, Kan. | 1,000<br>5,000—LS<br>CP-5,000 | 190<br>DA-N | S-KSAC | III-A |
| WTAG | Worcester, Mass. | 1,000<br>5,000—LS<br>CP-5,000—U | DA | U | III-A |
| WCHS | Charleston, W. Va. | 5,000 | 175<br>DA-N | U | III-A |

| Call Letters | Location | Power in Watts | Radiation mv/m | Time Designation | Class |
|---|---|---|---|---|---|
| **590 KILOCYCLES** | | | | | |
| KGMB | Honolulu, Hawaii | 5,000 | 175 | U | III-A |
| WEEI | Boston, Mass. | 5,000 | DA | U | III-A |
| WKZO | Kalamazoo, Mich. | 1,000<br>CP-5,000—LS | 189<br>DA-N | U | III-B |
| WOW | Omaha, Neb. | 5,000 | 180 | U | III-A |
| †WMBS | Uniontown, Pa. | 250<br>CP-1,000 | 175<br>DA-N | U | III-A |
| KHQ | Spokane, Wash. | 5,000 | 235 | U | III-A |
| **600 KILOCYCLES** | | | | | |
| KFSD | San Diego, Cal. | 1,000<br>CP-5,000 | 175 | U | III-A |
| WICC | Bridgeport, Conn. | 500<br>1,000—LS | DA | U | III-B |
| WMT | Cedar Rapids, Ia. | 1,000<br>5,000—LS<br>CP-5,000—U | 180<br>DA-N | U | III-A |
| WCAO | Baltimore, Md. | 500<br>1,000—LS | 175 | U | III-B |
| †WSJS | Winston-Salem, N. C. | 250<br>CP-1,000 | DA-N | U | III-B |
| WREC | Memphis, Tenn. | 1,000<br>5,000—LS<br>CP-5,000—U | DA | U | III-A |
| KROD | El Paso, Tex. | 500<br>1,000—LS | 175 | U | III-B |
| **610 KILOCYCLES** | | | | | |
| KFAR | Fairbanks, Alaska | 1,000 | 175 | U | III-A |
| KFRC | San Francisco, Cal. | 5,000 | 175 | U | III-A |
| WIOD | Miami, Fla. | 1,000<br>CP-5,000 | DA | U | III-A |
| WDAF | Kansas City, Mo. | 5,000 | 185 | U | III-A |
| *WMUR | Manchester, N. H. | 1,000<br>5,000—LS | DA | U | III-B |
| WCLE | Cleveland, O. | 500 | 175 | D | III |
| WIP | Philadelphia, Pa. | 5,000 | DA | U | III-A |
| †WSGN | Birmingham, Ala. (See 1340 kc.) | 1,000 | 175<br>DA-N | U | III-B |
| **620 KILOCYCLES** | | | | | |
| KTAR | Phoenix, Ariz. | 5,000 | DA | U | III-A |
| WSUN | St. Petersburg, Fla. | 5,000 | 183<br>DA-N | U | III-A |
| WLBZ | Bangor, Me. | 500<br>1,000—LS<br>CP-5,000—U | DA | U | III-A |
| *WAGE | Salina, N. Y (near Syracuse) | 1,000 | 175<br>DA-N | U | III-B |
| KGW | Portland, Ore. | 1,000<br>5,000—LS<br>CP-5,000—U | DA | U | III-A |
| WHJB | Greensburg, Pa. | 250 | 150 | D | IV |
| †WKAQ | San Juan, P. R. | 1,000<br>CP-5,000 | 195 | U | III-A |
| WROL | Knoxville, Tenn. | 500<br>1,000—LS | 175<br>DA-N | U | III-B |
| KWFT | Wichita Falls, Tex. | 1,000<br>5,000—LS | DA | U | III-A |
| WTMJ | Milwaukee, Wis. | 1,000<br>5,000—LS<br>CP-5,000—U | 190<br>DA-N | U | III-A |
| **630 KILOCYCLES** | | | | | |
| KVOD | Denver, Colo. | 1,000 | 205<br>DA-N | U | III-A |
| WMAL | Washington, D. C. | 5,000 | DA | U | III-A |
| KXOK | St. Louis, Mo. | 5,000 | DA | U | III-A |
| KOH | Reno, Nev. | 1,000 | 175<br>DA-N | U | III-A |
| WPRO | Providence, R. I. | 5,000 | 210<br>DA-N | U | III-A |
| KGFX | Pierre, S. D. | 200 | 150 | SH-D | IV |



# FM OR TELEVISION...

## INTERNATIONAL OR STANDARD BROADCASTING—

# *Here Is High Efficiency at High Power*

**Primarily developed for the new high-frequency services, GL-889-R, GL-889, and GL-880 provide superior performance for *all* present-day broadcasting.**

**GL-889-R**

High efficiency and economical forced-air-cooling are now available to the entire realm of broadcasting with the G-E developed GL-889-R. Its small size and short leads make it especially valuable for ultra-high-frequency operation.

At frequencies up to 25 megacycles, a pair of 889-R's is capable of 8,000 watts output plate-modulated, or 20,000 watts class C telegraph. For FM service, 10,000 watts output is very conservative operation.

Internal design is the same as the GL-889. GL-889-R's are used as output tubes in G-E 10,000-watt FM transmitters.

**GL-889**

Twenty-five years of G-E tube manufacturing experience contributed to the successful design of the GL-889—the tube which started a new trend in u-h-f construction. The GL-889 incorporates dual grid leads for separation of neutralizing and excitation circuits. It is fully shielded to prevent electron bombardment of the glass envelope.

Its compact construction makes possible short internal and external leads. Low driving power is required.

Water-cooled, it is rated at 10,000 watts output, class C telegraph, and 4,000 watts output in plate-modulated class C service.

**GL-880**

General Electric's GL-880 stands alone today in the field of high-power u-h-f transmitting tubes. Its unique construction—utilizing a re-entrant anode—resulted in a decrease in internal lead length of 10 inches compared with existing designs. Full ratings apply up to 25 megacycles. Reduced ratings to 100 mc.

A pair of GL-880's gives an easy 50,000-watt output in 42- to 50-mc FM broadcast service. Low driving power is required. The G-E 50,000-watt FM broadcast transmitter, excited by a 3,000-watt amplifier, uses push-pull GL-880's in the output stage.

*Technical information sheets on all G-E tubes are available through our local G-E representative. Place your next order for tubes with him. There are G-E sales engineers in 80 principal cities. General Electric, Schenectady, N. Y.*

**GENERAL ELECTRIC**

| Call Letters | Location | Power in Watts | Radiation mv/m | Time Designation | Class |
|---|---|---|---|---|---|
| **640 KILOCYCLES** | | | | | |
| KFI | Los Angeles, Cal. | 50,000 | 225 | U | I-A |
| WOI | Ames, Ia. | 5,000 | 180 | D | II |
| WHKC | Columbus, O. | 500 | 175 | L-KFI | II |
| WNAD | Norman, Okla. | 1,000 | 175 | D | II |
| **650 KILOCYCLES** | | | | | |
| WSM | Nashville, Tenn. | 50,000 | 225 | U | I-A |
| **660 KILOCYCLES** | | | | | |
| KOWH | Omaha, Neb. | 500 | 175 | D | II |
| WEAF | New York City | 50,000 | DA | U | I-A |
| **670 KILOCYCLES** | | | | | |
| WMAQ | Chicago, Ill. | 50,000 | 225 | U | I-A |
| **680 KILOCYCLES** | | | | | |
| KPO | San Francisco, Cal. | 50,000 | 225 | U | I-B |
| WLAW | Lawrence, Mass. | 5,000 | 175 DA-N | U | II |
| KFEQ | St. Joseph, Mo. | 500 2,500—LS | 175 | L-KPO | II |
| WPTF | Raleigh, N. C. | 5,000 CP-50,000 | 187 DA-N | U | II |
| **690 KILOCYCLES** | | | | | |
| KGGF | Coffeyville, Kan. | 500 1,000—LS | DA | U | II |
| **700 KILOCYCLES** | | | | | |
| WLW | Cincinnati, O. | 50,000 | 260 | U | I-A |
| **710 KILOCYCLES** | | | | | |
| KMPC | Beverly Hills, Cal. | 1,000 5,000—LS CP-5,000—U | DA | U | II |
| WOR | New York City | 50,000 | DA | U | I-B |
| KIRO | Seattle, Wash. | 1,000 CP-50,000 | DA | U | I-B |
| **720 KILOCYCLES** | | | | | |
| WGN | Chicago, Ill. | 50,000 | 250 | U | I-A |
| **740 KILOCYCLES** | | | | | |
| KQW | San Jose, Cal. | 1,000 5,000—LS (Proposed 5,000—U) | DA | U | II |
| **750 KILOCYCLES** | | | | | |
| WSB | Atlanta, Ga. | 50,000 | 235 | U | I-A |
| KMMJ | Grand Island, Neb. | 1,000 | 180 | L-WSB | II |
| WHEB | Portsmouth, N. H. | 1,000 | 175 | L-WSB | II |
| **760 KILOCYCLES** | | | | | |
| KGU | Honolulu, Hawaii | 2,500 | 175 | L-WJR | II |
| WJR | Detroit, Mich. | 50,000 | 225 | U | I-A |
| **770 KILOCYCLES** | | | | | |
| WLB | Minneapolis, Minn. | 5,000 | 175 | S-WCAL (2/3 daytime) | II |
| WCAL | Northfield, Minn. | 5,000 | 180 | S-WLB (1/3 daytime) | II |
| WEW | St. Louis, Mo. | 1,000 | 175 | D | II |
| WJZ | New York City | 50,000 | 235 | U | I-A |
| KXA | Seattle, Wash. | 1,000 | 175 | L-WJZ | II |
| **780 KILOCYCLES** | | | | | |
| WBBM | Chicago, Ill. | 50,000 | 225 | U | I-A |
| WJAG | Norfolk, Neb. (See 1090 kc.) | 1,000 | 175 | L-WBBM | II |
| KFAB | Lincoln, Neb. (Proposed 1110 kc.) | 10,000 | 225 | S-WBBM | II |
| **790 KILOCYCLES** | | | | | |
| KFQD | Anchorage, Alaska | 250 | 150 | SH | IV |
| KECA | Los Angeles, Cal. | 1,000 5,000—LS CP-5,000—U | 200 DA-N | U | III-A |
| KGHL | Billings, Mont. | 1,000 5,000—LS CP-5,000—U | 205 DA-N | U | III-A |
| WPIC | Sharon, Pa. | 1,000 | 175 | D | III |
| WPRA | Mayaguez, P. R. | 1,000 2,500—LS | 175 | U | III-A |
| WEAN | Providence, R. I. | 1,000 5,000—LS CP-5,000—U | DA | U | III-A |
| KFDY | Brookings, S. D. | 1,000 | 175 | SH-D | III |
| WMC | Memphis, Tenn. | 1,000 5,000—LS | 235 DA-N | U | III-A |
| WTAR | Norfolk, Va. | 5,000 | 181 DA-N | U | III-A |

| Call Letters | Location | Power in Watts | Radiation mv/m | Time Designation | Class |
|---|---|---|---|---|---|
| **810 KILOCYCLES** | | | | | |
| KGO | San Francisco, Cal. (Proposed 10,000) | 7,500 | 225 | U | I-B |
| KOAM | Pittsburg, Kan. | 1,000 | 185 | D | II |
| WGY | Schenectady, N. Y. | 50,000 | 235 | U | I-B |
| **820 KILOCYCLES** | | | | | |
| WTBO | Cumberland, Md. | 250 | 175 | L-WFAA-WBAP | II |
| WFAA | Dallas, Tex. | 50,000 | 245 | S-WBAP | I-A |
| WBAP | Fort Worth, Tex. | 50,000 | 245 | S-WFAA | I-A |
| **830 KILOCYCLES** | | | | | |
| WCCO | Minneapolis, Minn. | 50,000 | 245 | U | I-A |
| WNYC | New York City | 1,000 | DA | L-WCCO | II |
| **840 KILOCYCLES** | | | | | |
| WHAS | Louisville, Ky. | 50,000 | 250 | U | I-A |
| **850 KILOCYCLES** | | | | | |
| KOA | Denver, Colo. | 50,000 | 225 | U | I-A |
| WRUF | Gainesville, Fla. | 5,000 | 175 | L-KOA | II |
| WHDH | Boston, Mass. | 1,000 | 175 | L-KOA | II |
| KFUO | Clayton, Mo. | 1,000 CP-5,000 | 175 | L-KOA | II |
| WEEU | Reading, Pa. | 1,000 | 175 | D | II |
| **860 KILOCYCLES** | | | | | |
| KTRB | Modesto, Cal. | 250 | 175 | D | II |
| **870 KILOCYCLES** | | | | | |
| KIEV | Glendale, Cal. | 250 | 175 | D | II |
| WWL | New Orleans, La. | 50,000 | DA | U | I-A |
| WKAR | East Lansing, Mich. | 5,000 | 175 | D | II |
| WHCU | Ithaca, N. Y. | 1,000 | 175 | L-WWL | II |
| **880 KILOCYCLES** | | | | | |
| WHB | Kansas City, Mo. | 1,000 | 175 | D | II |
| WABC | New York City | 50,000 | 225 | U | I-A |
| **890 KILOCYCLES** | | | | | |
| WENR | Chicago, Ill. | 50,000 | 240 | S-WLS | I-A |
| WLS | Chicago, Ill. | 50,000 | 240 | S-WENR | I-A |
| **910 KILOCYCLES** | | | | | |
| KLX | Oakland, Cal. | 1,000 | 175 | U | III-A |
| KPOF | Denver, Colo. | 1,000 | 175 | S-KFKA | III-A |
| KFKA | Greeley, Colo. | 1,000 | 175 | S-KPOF | III-A |
| WSUI | Iowa City, Ia. | 1,000 5,000—LS | DA | U | III-A |
| †WFDF | Flint, Mich. | 100 CP-1,000 | DA | U | III-B |
| WCOC | Meridian, Miss. | 1,000 | 190 | U | III-A |
| WGBI | Scranton, Pa. | 500 1,000—LS | 175 | S-WQAN | III-B |
| WQAN | Scranton, Pa. | 500 1,000—LS | 175 | S-WGBI | III-B |
| WJHL | Johnson City, Tenn. | 1,000 | 175 DA-N | U | III-B |
| KRRV | Sherman, Tex. | 1,000 | DA | U | III-B |
| WRNL | Richmond, Va. | 1,000 | DA | U | III-B |
| KVAN | Vancouver, Wash. | 250 | 175 | D | IV |
| †WABI | Bangor, Me. (See 1230 kc.) | 5,000 | DA-N | U | III-A |
| **920 KILOCYCLES** | | | | | |
| KARK | Little Rock, Ark. | 5,000 | 212 DA-N | U | III-A |
| KTKC | Visalia, Cal. | 1,000 | 180 DA-N | U | III-B |
| WGST | Atlanta, Ga. | 1,000 5,000—LS | 185 | U | III-A |
| WBAA | West Lafayette, Ind. | 500 1,000—LS CP-1,000—N CP-5,000—LS | 175 DA-N | SH CP-U | III-B |
| KFNF | Shenandoah, Ia. | 500 1,000—LS | 220 | S-KUSD | III-B |
| WJAR | Providence, R. I. | 1,000 5,000—LS CP-5,000—U | DA | U | III-A |
| KUSD | Vermillion, S. D. | 500 | 175 | S-KFNF | III-B |
| KFPY | Spokane, Wash. | 5,000 | 210 | U | III-A |
| WMMN | Fairmont, W. Va. | 1,000 5,000—LS CP-5,000—U | 177 DA-N | U | III-A |

# I am the American Radio Listener!

FOR me, genius has slaved.

For me, Marconi dared, Edison worked on, great men and minds schemed and sweated that a sound might come to me in the loneliness of the night.

Now to my living-room, come the voices of presidents, kings, statesmen, and holy men, such as no man gone before ever heard.

To my ears, from the four corners of the earth, comes the news of the day as it happens—without prejudice or censorship—that I may know what's about me.

To my farm come prices from the world's market places that I may, each day, receive fair exchange for my labors in the field.

To my home comes the music of the world's greatest masters; the thoughts of the world's greatest men—without compulsion or cost.

At my finger tips is the world's finest entertainment, to take or leave as I wish—for many compete for my favor.

No person decrees to what I shall listen; no government taxes me. In America radio is free.

This is the American System of Broadcasting.

I am perfectly willing to gamble with the advertiser who pays the bill because he is perfectly willing to gamble with me. I do not have to listen if he doesn't interest me.

There is always someone else, somewhere on the dial, should he bore me; there is always adequate redress should he offend me.

When emergency strikes, radio lifts me from the flood waters, brings me shelter and food, reunites my family, opens the purse strings of the nation to my plight.

When the night sets in, radio fills up the long hours; through the day brings my children wholesome stimulation; my wife relaxation and enjoyment.

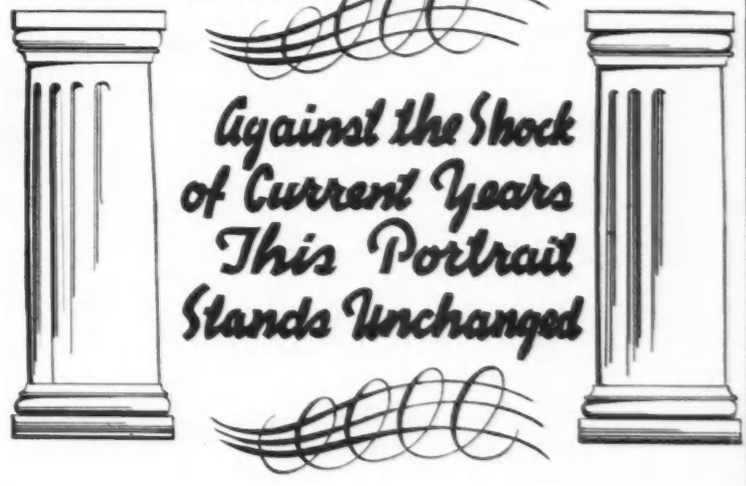
I am the beginning and end of every radio consideration, for I am the American radio listener!

I am pleased because I am well served. That is why I own 30,000,000 radio sets—that I may listen to what I choose, when I choose.

*A message to the interests of the American System of Broadcasting by one proud to be a part thereof; by one privileged from time to time to have contributed to its progress; by one seeking new opportunities to broaden its service to the American listener.*

W S M
The Air Castle of the South
50,000 WATTS
. . . HARRY STONE, General Manager
. . . Tennessee

R. W. CRAIG, Vice-Pr
The National Life



**Against the Shock of Current Years This Portrait Stands Unchanged**

NEW assignments under Havana Treaty allocations will add another step to Radio's stairway of progress . . . . but, through the changes of the day, WSM's *policies remain unchanged.*

And we take this opportunity to announce that it will be unnecessary to change WSM's broadcasting frequency.

NASHVILLE, TENN. HARRY L. STONE, Gen'l. Mgr.

OWNED AND OPERATED BY
THE NATIONAL LIFE AND ACCIDENT INSURANCE COMPANY, INC.
NATIONAL REPRESENTATIVES. EDWARD PETRY & CO., INC.

| Call Letters | Location | Power in Watts | Radiation mv/m | Time Designation | Class |
|---|---|---|---|---|---|
| **930 KILOCYCLES** | | | | | |
| KGBU..... | Ketchikan, Alaska | 500 | 175 | U | III-B |
| KHJ..... | Los Angeles, Cal. | 1,000<br>5,000—LS<br>CP-5,000—U | DA | U | III-A |
| WJAX..... | Jacksonville, Fla. | 1,000<br>5,000—LS | 190 | U | III-A |
| KSEI..... | Pocatello, Ida. | 250<br>1,000—LS | 175 | U | III-B |
| WTAD..... | Quincy, Ill. | 1,000 | 185<br>DA-N | U | III-B |
| WFMD..... | Frederick, Md. | 500 | 185<br>DA-N | U | III-B |
| *WPAT..... | Paterson, N. J. | 1,000 | 175 | D | III |
| WBEN..... | Buffalo, N. Y. | 1,000<br>5,000—LS<br>CP-5,000—U | 200<br>DA-N | U | III-A |
| WKY..... | Oklahoma City, Okla. | 1,000<br>5,000—LS<br>CP-5,000—U | 190<br>DA | U | III-A |
| †WSAZ..... | Huntington, W. Va. | 250<br>1,000—LS<br>CP-1,000—U | DA | SH | III-B |
| WLBL..... | Stevens Point, Wis. | 5,000 | 200 | D | III |
| **940 KILOCYCLES** | | | | | |
| WMAZ .... | Macon, Ga. | 250<br>5,000—LS<br>(Proposed 5,000—U) | 175<br>(Proposed DA) | U | II |
| **950 KILOCYCLES** | | | | | |
| KFEL..... | Denver, Colo. | 1,000<br>CP-5,000 | DA | U | III-A |
| WAAF..... | Chicago, Ill. | 1,000 | 175 | D | III |
| WORL..... | Boston, Mass. | 1,000 | 185 | D | III |
| WWJ..... | Detroit, Mich. | 1,000<br>5,000—LS<br>CP-5,000—U | 210<br>DA-N | U | III-A |
| WPEN..... | Philadelphia, Pa. | 1,000<br>CP-5,000 | 175<br>DA-N | U | III-A |
| WSPA..... | Spartanburg, S. C. | 1,000—D<br>CP-1,000—N<br>CP-5,000—LS | 180<br>DA-N | D<br>CP-U | III-B |
| KPRC..... | Houston, Tex. | 1,000<br>5,000—LS<br>CP-5,000—U | 200<br>DA-N | U | III-A |
| KOMO..... | Seattle, Wash. | 1,000<br>5,000—LS<br>CP-5,000—U | 245<br>DA-N | U | III-A |
| **960 KILOCYCLES** | | | | | |
| WBRC..... | Birmingham, Ala. | 1,000<br>5,000—LS<br>CP-5,000—U | 175<br>DA-N | U | III-A |
| KROW..... | Oakland, Cal. | 1,000 | 175 | U | III-A |
| WELI..... | New Haven, Conn. | 250<br>500—LS<br>CP-500—N<br>CP-1,000—LS | 184<br>DA-N | U | III-B |
| †WSBT..... | South Bend, Ind. | 250<br>500—LS<br>CP-500—U | DA | SH<br>CP-U | III-B |
| KMA..... | Shenandoah, Ia. | 1,000<br>5,000—LS | 225 | U | III-A |
| WDBJ..... | Roanoke, Va. | 1,000<br>5,000—LS<br>CP-5,000—U | 210<br>DA-N | U | III-A |
| **970 KILOCYCLES** | | | | | |
| WFLA..... | Tampa, Fla. | 1,000<br>5,000—LS | 175<br>DA-N | U | III-B |
| WAVE..... | Louisville, Ky. | 5,000 | DA | U | III-A |
| WCSH..... | Portland, Me. | 1,000<br>2,500—LS<br>CP-5,000—U | DA | U | III-A |
| WAAT..... | Jersey City, N. J. | 500—D<br>CP-1,000 | 175<br>DA-N | U | III-B |
| WDAY..... | Fargo, N. D. | 5,000 | 175<br>DA-N | U | III-A |
| WICA..... | Ashtabula, O. | 1,000 | 175 | D | III |
| KOIN..... | Portland, Ore. | 5,000 | 224<br>DA-N | U | III-A |
| WHA..... | Madison, Wis. | 5,000 | 175 | D | III |
| **980 KILOCYCLES** | | | | | |
| KFWB..... | Los Angeles, Cal. | 5,000 | 220 | U | III-A |
| WRC..... | Washington, D. C. | 1,000<br>5,000—LS<br>CP-5,000—U | 185<br>DA-N | U | III-A |
| *WHAL..... | Saginaw, Mich. | 500 | 175 | D | III |
| KMBC..... | Kansas City, Mo. | 5,000 | 224<br>DA-N | U | III-A |
| WTRY..... | Troy, N. Y. | 1,000 | DA | U | III-B |
| †WSIX..... | Nashville, Tenn.<br>(See 1240 kc.) | 1,000<br>5,000—LS | DA-N | U | III-B |
| **990 KILOCYCLES** | | | | | |
| WIBG..... | Glenside, Pa. | 1,000 | 175 | D | II |
| WNOX..... | Knoxville, Tenn. | 1,000<br>5,000—LS | 235<br>DA-N | U | II |
| **1000 KILOCYCLES** | | | | | |
| WCFL..... | Chicago, Ill. | 5,000<br>CP-10,000 | DA | U | I-B |
| WINS..... | New York City | 1,000<br>CP-50,000—U | DA | L-WCFL | II |
| KJR..... | Seattle, Wash. | 5,000<br>(Proposed 10,000) | 250<br>DA-N | U | II<br>I-B |

| Call Letters | Location | Power in Watts | Radiation mv/m | Time Designation | Class |
|---|---|---|---|---|---|
| **1020 KILOCYCLES** | | | | | |
| KFVD..... | Los Angeles, Cal. | 1,000 | 185 | L-KDKA | II |
| KDKA..... | Pittsburgh, Pa. | 50,000 | 295 | U | I-A |
| **1030 KILOCYCLES** | | | | | |
| WBZ..... | Boston, Mass. | 50,000 | DA | U-Synchronized with WBZA | I-B |
| WBZA..... | Springfield, Mass. | 1,000 | 175 | U-Synchronized with WBZ | II |
| KOB..... | Albuquerque, N. M. | 10,000<br>CP-50,000 | 225<br>DA-N | U | II |
| **1040 KILOCYCLES** | | | | | |
| WHO..... | Des Moines, Ia. | 50,000 | 225 | U | I-A |
| **1050 KILOCYCLES** | | | | | |
| WDZ..... | Tuscola, Ill. | 1,000 | 180 | D | II |
| WHN..... | New York City | 1,000<br>5,000—LS<br>CP-50,000—U | 175<br>DA-N | U | II |
| **1060 KILOCYCLES** | | | | | |
| KYW..... | Philadelphia, Pa. | 50,000 | DA | U | I-B |
| **1070 KILOCYCLES** | | | | | |
| WAPI ..... | Birmingham, Ala.<br>(See 1170 kc.) | (Proposed 50,000) | DA-N | U | II |
| KNX..... | Los Angeles, Cal. | 50,000 | 245 | U | I-B |
| WIBC..... | Indianapolis, Ind. | 1,000<br>CP-5,000—LS | 190<br>DA-N | D<br>CP-U | II |
| KFBI..... | Wichita, Kan. | 5,000<br>CP-1,000<br>CP-5,000—LS | 175<br>DA-N | L-KNX<br>CP-U | II |
| WEAU..... | Eau Claire, Wis. | 1,000<br>5,000—LS | 190<br>DA-N | L-KFBI | II |
| **1080 KILOCYCLES** | | | | | |
| KYOS..... | Merced, Cal. | 250 | 175 | D | II |
| WTIC..... | Hartford, Conn. | 50,000 | 226<br>DA-N | U | I-B |
| WCAZ..... | Carthage, Ill. | 100 | 185 | D | II |
| KWJJ..... | Portland, Ore. | 500<br>CP-1,000—U | 190<br>DA-N | L-KRLD,<br>WTIC<br>CP-U | II |
| KRLD..... | Dallas, Tex. | 50,000 | 225<br>DA-N | U | I-B |
| **1090 KILOCYCLES** | | | | | |
| KTHS..... | Hot Springs, Ark. | 10,000<br>(Proposed 50,000) | 225<br>DA-N | U | I-B |
| WBAL..... | Baltimore, Md. | 10,000<br>CP-50,000 | 225<br>DA-N | U | I-B |
| WJAG..... | Norfolk, Neb. | 1,000<br>(Proposed 780 kc.) | 175 | L-WBAL, KTHS | II |
| **1100 KILOCYCLES** | | | | | |
| KJBS..... | San Francisco, Cal. | 500 | 175 | L-WTAM | II |
| WTAM..... | Cleveland, O. | 50,000 | 225 | U | I-A |
| **1110 KILOCYCLES** | | | | | |
| WCBD..... | Chicago, Ill. | 5,000 | 225 | L-WBT,<br>S-WMBI | II |
| WMBI..... | Chicago, Ill. | 5,000 | 250 | L-WBT,<br>S-WCBD | II |
| KFAB..... | Lincoln, Neb.<br>(See 780 kc.) | 10,000<br>(Proposed 50,000) | 225<br>DA-N | U | I-B |
| WBT..... | Charlotte, N. C. | 50,000 | 225<br>(Proposed DA-N) | U | I-B |
| **1120 KILOCYCLES** | | | | | |
| KMOX..... | St. Louis, Mo. | 50,000 | 225 | U | I-A |
| **1130 KILOCYCLES** | | | | | |
| KGDM..... | Stockton, Cal. | 1,000 | 175 | D | II |
| KWKH..... | Shreveport, La. | 50,000 | 253<br>DA-N | U | I-B |
| WCAR..... | Pontiac, Mich. | 1,000 | 185 | D | II |
| WDGY..... | Minneapolis, Minn. | 1,000<br>5,000—LS | 175 | SH<br>(Proposed U-DA-N) | II |
| WOV..... | New York City | 5,000<br>CP-10,000 | DA | U | I-B |
| **1140 KILOCYCLES** | | | | | |
| KSOO..... | Sioux Falls, S. D | 5,000 | 180<br>DA-N | L-WRVA | II |
| WRVA..... | Richmond, Va. | 50,000 | DA | U | I-B |

IN COLUMBIA LEADERSHIP

*—in Coverage*
*—in Popularity*
*—in Power*
*—in Affiliation*

# KRLD

## 50,000 Watts

*New Frequency*
**1080 Kilocycles**

# KRLD

*The Times Herald Station*
ADOLPHUS HOTEL, DALLAS

THE BRANHAM COMPANY NATIONAL REPRESENTATIVES

| Call Letters | Location | Power in Watts | Radiation mv/m | Time Designation | Class |
|---|---|---|---|---|---|
| **1150 KILOCYCLES** | | | | | |
| KFSG | Los Angeles, Cal. | 1,000<br>2,500—LS | 175 | S-KRKD | III-A |
| KRKD | Los Angeles, Cal. | 1,000<br>2,500—LS | 175 | S-KFSG | III-A |
| WDEL | Wilmington, Del. | 250<br>1,000—LS<br>CP-5,000—U | DA | U | III-A |
| KSAL | Salina, Kan. | 500<br>1,000—LS<br>CP-1,000—U | 200<br>DA-N | U | III-B |
| WJBO | Baton Rouge, La. | 1,000<br>CP-5,000 | 225<br>DA | U | III-A |
| WCOP | Boston, Mass. | 500 | 185<br>CP-DA-N | D<br>CP-U | III-B |
| *KSWO | Lawton, Okla. | 250 | 175 | D | IV |
| WKPA | New Kensington, Pa. | 250 | 150 | D | IV |
| †WAPO | Chattanooga, Tenn. | 250<br>CP-1,000<br>CP-5,000—LS | 195<br>DA-N | U | III-B |
| KTBC | Austin, Tex. | 1,000 | 175 | SH-D-WTAW | III |
| WTAW | College Station, Tex. | 500<br>CP-1,000 | 175 | SH-D-KTBC | III |
| KRSC | Seattle, Wash. | 1,000 | 175 | U | III-A |
| KFIO | Spokane, Wash. | 100 | 150 | D | IV |
| WISN | Milwaukee, Wis. | 250<br>1,000—LS<br>CP-5,000—U | DA | U | III-A |
| **1160 KILOCYCLES** | | | | | |
| WJJD | Chicago, Ill. | 20,000 | 175 | L-KSL | II |
| KSL | Salt Lake City, Utah | 50,000 | 225 | U | I-A |
| **1170 KILOCYCLES** | | | | | |
| KVOO | Tulsa, Okla. | 25,000<br>(Proposed 50,000) | 175<br>DA-N | U | I-B |
| WWVA | Wheeling, W. Va. | 5,000<br>(Proposed 50,000) | 195<br>DA | SH<br>U | II<br>I-B |
| WAPI | Birmingham, Ala.<br>(Proposed 50,000 on 1070 kc) | 5,000 | DA | U | II |
| **1180 KILOCYCLES** | | | | | |
| WHAM | Rochester, N. Y. | 50,000 | 245 | U | I-A |
| **1190 KILOCYCLES** | | | | | |
| WOWO | Fort Wayne, Ind. | 10,000<br>(Proposed 50,000) | 245<br>DA | SH<br>U | I-B |
| KEX | Portland, Ore. | 5,000<br>(Proposed 50,000) | 225<br>DA | U | II<br>I-B |
| **1200 KILOCYCLES** | | | | | |
| WOAI | San Antonio, Tex. | 50,000 | 225 | U | I-A |
| **1210 KILOCYCLES** | | | | | |
| WCAU | Philadelphia, Pa. | 50,000 | 225 | U | I-A |
| **1230 KILOCYCLES** | | | | | |
| WBHP | Huntsville, Ala. | 250 | 175 | U | IV |
| WMOB | Mobile, Ala. | 250 | 150 | U | IV |
| WJRD | Tuscaloosa, Ala. | 250 | 175 | U | IV |
| KSUN | Lowell, Ariz. | 250 | 185 | U | IV |
| KPHO | Phoenix, Ariz. | 250 | 150 | U | IV |
| KBTM | Jonesboro, Ark. | 100<br>250—LS | 180 | U | IV |
| KGHI | Little Rock, Ark. | 250 | 150 | U | IV |
| KGFJ | Los Angeles, Cal. | 100 | 150 | U | IV |
| KVCV | Redding, Cal. | 250 | 150 | U | IV |
| KVEC | San Luis Obispo, Cal. | 250 | 185 | U | IV |
| KWG | Stockton, Cal. | 100 | 150 | U | IV |
| KFXJ | Grand Junction, Colo. | 250 | 180 | U | IV |
| KGEK | Sterling, Colo. | 100 | 150 | SH | IV |
| WTHT | Hartford, Conn. | 250 | 150 | U | IV |
| WLOF | Orlando, Fla. | 250 | 150 | U | IV |
| WDLP | Panama City, Fla. | 100<br>250—LS | 150 | U | IV |
| WJNO | West Palm Beach, Fla. | 250 | 175 | U | IV |
| WRBL | Columbus, Ga. | 250 | 180 | U | IV |
| WBLJ | Dalton, Ga. | 250 | 150 | U | IV |
| WAYX | Waycross, Ga. | 250 | 150 | U | IV |
| KHBC | Hilo, Hawaii | 250 | 150 | U | IV |
| KFXD | Nampa, Ida. | 250 | 150 | U | IV |
| WJBC | Bloomington, Ill. | 250 | 180 | U | IV |
| WJOB | Hammond, Ind. | 100 | 150 | U | IV |
| WFAM | South Bend, Ind. | 100 | 150 | SH | IV |
| WBOW | Terre Haute, Ind. | 250 | 190 | U | IV |
| KFJB | Marshalltown, Ia. | 250 | 180 | U | IV |
| WHOP | Hopkinsville, Ky. | 250 | 180 | U | IV |
| KMLB | Monroe, La. | 250 | 175 | U | IV |
| WJBW | New Orleans, La. | 250 | 185 | U | IV |
| WABI | Bangor, Me.<br>(†910kc) | 250 | 195 | U | IV |
| WITH | Baltimore, Md. | 250 | 150 | U | IV |
| WBOC | Salisbury, Md. | 250 | 150 | U | IV |

| Call Letters | Location | Power in Watts | Radiation mv/m | Time Designation | Class |
|---|---|---|---|---|---|
| **1230 KILOCYCLES—Continued** | | | | | |
| WESX | Salem, Mass. | 100 | 175 | U | IV |
| *WMAW | Worcester, Mass. | 250 | 150 | U | IV |
| *WGRB | Grand Rapids, Mich. | 250 | 150 | U | IV |
| WMPC | Lapeer, Mich. | 250 | 150 | SH | IV |
| WSAM | Saginaw, Mich. | 100 | 150 | SH | IV |
| WSOO | Sault Ste. Marie, Mich. | 100<br>250—LS | 150 | U | IV |
| KGDE | Fergus Falls, Minn. | 100<br>250—LS | 150 | U | IV |
| KYSM | Mankato, Minn. | 250 | 200 | U | IV |
| KWNO | Winona, Minn. | 250 | 190 | U | IV |
| WSKB | McComb, Miss. | 250 | 190 | U | IV |
| WIL | St. Louis, Mo. | 250 | 150 | U | IV |
| KHAS | Hastings, Neb. | 250 | 190 | U | IV |
| WENY | Elmira, N. Y. | 250 | 240 | U | IV |
| WIBX | Utica, N. Y. | 250 | 150 | U | IV |
| WMFR | High Point, N. C. | 250 | 150 | U | IV |
| WFTC | Kinston, N. C. | 250 | 175 | U | IV |
| WCBT | Roanoke Rapids, N. C. | 250 | 150 | U | IV |
| WHBC | Canton, O. | 250 | 265 | U | IV |
| WCPO | Cincinnati, O. | 250 | 150 | U | IV |
| WCOL | Columbus, O. | 250 | 150 | U | IV |
| WTOL | Toledo, O. | 250 | 150 | U | IV |
| KADA | Ada, Okla. | 250 | 175 | U | IV |
| WBBZ | Ponca City, Okla. | 250 | 150 | U | IV |
| KAST | Astoria, Ore. | 250 | 175 | U | IV |
| KODL | The Dalles, Ore. | 100<br>250—LS | 150 | U | IV |
| KOOS | Marshfield, Ore. | 250 | 150 | U | IV |
| *WCED | Du Bois, Pa. | 250 | 150 | U | IV |
| WKBO | Harrisburg, Pa. | 250 | 150 | U | IV |
| WAIM | Anderson, S. C. | 100<br>CP-250 | 150 | U | IV |
| WOLS | Florence, S. C. | 250 | 165 | U | IV |
| WCAT | Rapid City, S. D. | 100 | 180 | SH-D | IV |
| KELO | Sioux Falls, S. D. | 250 | 150 | U | IV |
| KFDA | Amarillo, Tex. | 250 | 150 | U | IV |
| KVNU | Logan, Utah | 250 | 150 | U | IV |
| WCAX | Burlington, Vt. | 250 | 150 | U | IV |
| WLVA | Lynchburg, Va. | 250 | 150 | U | IV |
| KVOS | Bellingham, Wash. | 250 | 175 | U | IV |
| WLOG | Logan, W. Va. | 100 | 150 | U | IV |
| WAJR | Morgantown, W. Va. | 250 | 150 | U | IV |
| WHBY | Appleton, Wis. | 250 | 150 | U | IV |
| WCLO | Janesville, Wis. | 250 | 195 | U | IV |
| WDSM | Superior, Wis. | 100 | 175 | U | IV |
| *KPOW | Powell, Wyo. | 250 | 150 | U | IV |
| **1240 KILOCYCLES** | | | | | |
| WJBY | Gadsden, Ala. | 250 | 175 | U | IV |
| WCOV | Montgomery, Ala. | 100<br>CP-250 | 175 | U | IV |
| KWJB | Globe, Ariz. | 250 | 180 | U | IV |
| KYUM | Yuma, Ariz. | 250 | 175 | U | IV |
| KDON | Monterey, Cal. | 100 | 150 | U | IV |
| KPPC | Pasadena, Cal. | 100 | 150 | S-KFXM | IV |
| KROY | Sacramento, Cal. | 100 | 175 | U | IV |
| KFXM | San Bernardino, Cal. | 250 | 175 | S-KPPC | IV |
| WFTM | Fort Myers, Fla. | 250 | 150 | U | IV |
| WFOY | St. Augustine, Fla. | 250 | 175 | U | IV |
| WGAC | Augusta, Ga. | 250 | 150 | U | IV |
| *WGGA | Gainesville, Ga. | 250 | 180 | U | IV |
| *WLAG | LaGrange, Ga. | 250 | 150 | U | IV |
| WBML | Macon, Ga. | 250 | 150 | U | IV |
| WPAX | Thomasville, Ga. | 250 | 150 | U | IV |
| WCRW | Chicago, Ill. | 100 | 150 | SH-WEDC, WSBC | IV |
| WEDC | Chicago, Ill. | 250 | 150 | SH-WCRW, WSBC | IV |
| WSBC | Chicago, Ill. | 250 | 150 | SH-WCRW, WEDC | IV |
| WEBQ | Harrisburg, Ill. | 250 | 150 | U | IV |
| WTAX | Springfield, Ill. | 100 | 150 | U | IV |
| WHBU | Anderson, Ind. | 250 | 150 | U | IV |
| †KWLC | Decorah, Ia. | 100<br>CP-250—D | 150 | SH | IV |
| *KBIZ | Ottumwa, Ia. | 100 | 150 | U | IV |
| KIUL | Garden City, Kan. | 100 | 150 | U | IV |
| KANS | Wichita, Kan. | 250 | 150 | U | IV |
| WINN | Louisville, Ky. | 100<br>250—LS | 150 | U | IV |
| KALB | Alexandria, La. | 250 | 150 | U | IV |

GEORGIA'S 1-A STATION

# WSB

ATLANTA, GEORGIA

POWER
PROGRAMS
PUBLICITY

*In Southern Ohio*
IT'S
WHIO
DAYTON

*In Florida*
IT'S
WIOD
MIAMI

*Sales*
THE VOICE OF THE SOUTH

50,000 WATTS — NBC-RED — CLEAR CHANNEL

EDWARD PETRY & CO., INC.—National Representatives

| Call Letters | Location | Power in Watts | Radiation mv/m | Time Designation | Class |
|---|---|---|---|---|---|
| **1240 KILOCYCLES—Continued** | | | | | |
| WCOU | Lewiston, Me. | 250 | 180 | U | IV |
| WJEJ | Hagerstown, Md. | 250 | 150 | U | IV |
| WHAI | Greenfield, Mass. | 250 | 175 | U | IV |
| WOCB | Hyannis, Mass. | 250 | 150 | U | IV |
| WJIM | Lansing, Mich. | 250 | 150 | U | IV |
| WMFG | Hibbing, Minn. | 250 | 150 | U | IV |
| WGRM | Greenwood, Miss. | 250 | 150 | U | IV |
| WGCM | Gulfport, Miss. | 250 | 150 | U | IV |
| KPFA | Helena, Mont. | 250 | 150 | U | IV |
| KFOR | Lincoln, Neb. | 100<br>250—LS<br>CP-250—U | 150 | U | IV |
| WSNJ | Bridgeton, N. J. | 250 | 175 | U | IV |
| WBRB | Red Bank, N. J. | 100 | 150 | S-WGBB | IV |
| KAVE | Carlsbad, N. M. | 250 | 180 | U | IV |
| WGBB | Freeport, N. Y. | 100 | 150 | S-WBRB, WFAS | IV |
| WJTN | Jamestown, N. Y. | 250 | 175 | U | IV |
| WSAY | Rochester, N. Y. | 250 | 150 | U | IV |
| WATN | Watertown, N. Y. | 250 | 150 | U | IV |
| WFAS | White Plains, N. Y. | 250 | 150 | S-WGBB | IV |
| WSOC | Charlotte, N. C. | 100<br>250—LS<br>CP-250—U | 150 | U | IV |
| WRAL | Raleigh, N. C. | 250 | 175 | U | IV |
| KDLR | Devils Lake, N. D. | 250 | 180 | U | IV |
| WJW | Akron, O. | 250 | 150 | U | IV |
| WLOK | Lima, O. | 250 | 150 | U | IV |
| WHIZ | Zanesville, O. | 250 | 150 | U | IV |
| KVSO | Ardmore, Okla. | 100<br>250—LS | 150 | U | IV |
| KASA | Elk City, Okla. | 100 | 150 | U | IV |
| KHBG | Okmulgee, Okla. | 250 | 175 | U | IV |
| KWIL | Albany, Ore. | 250 | 150 | U | IV |
| KFJI | Klamath Falls, Ore. | 100 | 150 | U | IV |
| WKOK | Sunbury, Pa. | 250 | 150 | U | IV |
| WBAX | Wilkes-Barre, Pa. | 100 | 175 | U | IV |
| KWAT | Watertown, S. D. | 250 | 150 | U | IV |
| *WBIR | Knoxville, Tenn. | 250 | 150 | U | IV |
| WSIX | Nashville, Tenn. (†980 kc.) | 250 | 150 | U | IV |
| *KGBS | Harlingen, Tex. | 250 | 150 | U | IV |
| KOCA | Kilgore, Tex. | 250 | 170 | U | IV |
| KXOX | Sweetwater, Tex. | 250 | 180 | U | IV |
| KOVO | Provo, Utah | 250 | 170 | U | IV |
| WPID | Petersburg, Va. | 250 | 180 | U-except Sunday when WBBL operates | IV |
| WBBL | Richmond, Va. | 100 | 150 | SH | IV |
| KGY | Olympia, Wash. | 100 | 150 | U-except when KTW is operating | IV |
| WJLS | Beckley, W. Va. | 250 | 180 | U | IV |
| WOMT | Manitowoc, Wis. | 100 | 150 | U | IV |
| WIBU | Poynette, Wis. | 250 | 190 | U | IV |
| WJMC | Rice Lake, Wis. | 250 | 180 | U | IV |
| KFBC | Cheyenne, Wyo. | 250 | 150 | U | IV |
| **1250 KILOCYCLES** | | | | | |
| KTMS | Santa Barbara, Cal. | 1,000 | DA | U | III-B |
| WDAE | Tampa, Fla. | 5,000 | DA | U | III-A |
| KFKU | Lawrence, Kan. | 1,000<br>5,000—LS | 175 | S-WREN | III-A |
| WREN | Lawrence, Kan. | 1,000<br>5,000—LS<br>CP-5,000 | DA | S-KFKU | III-A |
| WCAD | Canton, N. Y. | 500 | 175 | SH-D | III |
| WGNY | Newburgh, N. Y. | 250 | 180 | D | IV |
| WCAE | Pittsburgh, Pa. | 5,000 | 215<br>DA-N | U | III-A |
| †WTMA | Charleston, S. C. | 250<br>CP-1,000 | 215<br>DA-N | U | III-B |
| KPAC | Port Arthur, Tex. | 500 | 187.5<br>DA-N | U | III-B |
| KWSC | Pullman, Wash. | 5,000 | 180 | S-KTW | III-A |
| KTW | Seattle, Wash. | 1,000 | 175 | S-KWSC | III-A |
| **1260 KILOCYCLES** | | | | | |
| KYA | San Francisco, Cal. | 1,000<br>5,000—LS | 230 | U | III-A |
| WOL | Washington, D. C. | 1,000 | DA | U | III-A |
| WFBM | Indianapolis, Ind. | 1,000<br>5,000—LS<br>CP-5,000—U | 245<br>DA-N | U | III-A |
| WNAC | Boston, Mass. | 1,000<br>5,000—LS<br>CP-5,000—U | DA | U | III-A |
| KGBX | Springfield, Mo. | 5,000 | 175<br>DA-N | U | III-A |
| KGGM | Albuquerque, N. M. | 1,000 | 190 | U | III-A |
| **1270 KILOCYCLES** | | | | | |
| KTFI | Twin Falls, Ida. | 1,000 | 250 | U | III-A |
| WHBF | Rock Island, Ill. | 1,000<br>CP-5,000 | DA | U | III-A |
| †WSPR | Springfield, Mass. | 250<br>500—LS<br>CP-500—U | DA | SH | III-B |
| WXYZ | Detroit, Mich. | 5,000 | 227<br>DA-N | U | III-A |
| KGCU | Mandan, N. D. | 250<br>(Proposed 500<br>1,000—LS) | 180 | U | IV<br>III-B |

| Call Letters | Location | Power in Watts | Radiation mv/m | Time Designation | Class |
|---|---|---|---|---|---|
| **1270 KILOCYCLES—Continued** | | | | | |
| KFJZ | Fort Worth, Tex. | 1,000<br>CP-5,000 | DA | U | III-A |
| **1280 KILOCYCLES** | | | | | |
| KFOX | Long Beach, Cal. | 1,000 | 175 | U | III-A |
| WMRO | Aurora, Ill. | 250 | 175 | D | IV |
| WGBF | Evansville, Ind. | 1,000<br>5,000—LS | 200<br>DA-N | U | III-B |
| WDSU | New Orleans, La. | 1,000<br>CP-5,000 | DA | U | III-A |
| WTCN | Minneapolis, Minn. | 1,000<br>5,000—LS | 210 | U | III-A |
| WHBI | Newark, N. J. | 1,000<br>2,500—LS | 175 | S-WNEW | III-A |
| WNEW | New York City | 1,000<br>5,000—LS<br>CP-5,000—U | DA | S-WHBI | III-A |
| WKST | New Castle, Pa. | 1,000 | 190<br>DA-N | D<br>CP-U | III<br>III-B |
| KIT | Yakima, Wash. | 1,000 | 185 | U | III-A |
| **1290 KILOCYCLES** | | | | | |
| KVOA | Tucson, Ariz. | 1,000 | 175 | U | III-A |
| KUOA | Siloam Springs, Ark. | 5,000 | 250 | D | III |
| KHSL | Chico, Cal. | 500<br>1,000—LS | 190 | U | III-B |
| WTOC | Savannah, Ga. | 1,000<br>5,000—LS | 175<br>DA-N | U | III-A |
| KGVO | Missoula, Mont. | 1,000<br>5,000—LS | 190 | U | III-A |
| KOIL | Omaha, Neb. | 1,000<br>5,000-LS<br>CP-5,000-U | 210<br>DA-N | U | III-A |
| WHLD | Niagara Falls, N. Y. | 1,000 | 190 | D | III |
| WHIO | Dayton, O. | 1,000<br>5,000—LS<br>CP-5,000—U | 200<br>DA-N | U | III-A |
| KRGV | Weslaco, Tex. | 1,000 | 185 | U | III-A |
| WKNE | Keene, N. H. | 5,000 | DA | U | III-A |
| WFVA | Fredericksburg, Va. | 250 | 180 | D | IV |
| **1300 KILOCYCLES** | | | | | |
| KVOR | Colorado Springs, Colo. | 1,000 | 190 | U | III-A |
| †KGLO | Mason City, Ia. | 250<br>CP-1,000 | 205<br>DA-N | U | III-B |
| WFBR | Baltimore, Md. | 1,000<br>5,000—LS<br>(Proposed 5,000—U) | DA | U | III-A |
| WASH | Grand Rapids, Mich. (Proposed 5,000) | 500 | 175<br>DA-N | S-WOOD | III-B<br>(Proposed III-A) |
| WOOD | Grand Rapids, Mich. (Proposed 5,000) | 500 | 175<br>DA-N | S-WASH | III-B<br>(Proposed III-A) |
| WJDX | Jackson, Miss. | 1,000<br>5,000—LS | 215 | U | III-A |
| WWNY | Watertown, N. Y. | 500 | 175 | D | III |
| KOL | Seattle, Wash. | 1,000<br>5,000—LS | 230 | U | III-A |
| **1310 KILOCYCLES** | | | | | |
| KLS | Oakland, Cal. | 250<br>CP-1,000 | 175 | U | III-A |
| *WISH | Indianapolis, Ind. | 1,000<br>5,000—LS | DA-N | U | III-B |
| WORC | Worcester, Mass. | 500<br>CP-1,000 | DA | U | III-B |
| KFBB | Great Falls, Mont. | 1,000<br>5,000—LS<br>CP-5,000—U | 250<br>DA-N | U | III-A |
| WCAP | Asbury Park, N. J. | 500 | 175 | S-WCAM, WTNJ | III-B |
| WCAM | Camden, N. J. | 500 | 175 | S-WCAP, WTNJ | III-B |
| WTNJ | Trenton, N. J | 500 | 190 | S-WCAM, WCAP | III-B |
| WDOD | Chattanooga, Tenn. | 1,000<br>5,000—LS<br>CP-5,000—U | 215<br>DA-N | U | III-A |
| WRR | Dallas, Tex. | 500<br>CP-5,000 | 194<br>DA-N | U | III-A |
| WIBA | Madison, Wis. | 1,000<br>5,000—LS<br>CP-5,000—U | 231<br>DA-N | U | III-A |
| **1320 KILOCYCLES** | | | | | |
| KLCN | Blytheville, Ark. | 100 | 175 | D | IV |
| WATR | Waterbury, Conn. | 250 | DA | U | IV |
| WJHP | Jacksonville, Fla. | 250 | 150 | U | IV |
| WEBC | Duluth, Minn. | 1,000<br>5,000—LS<br>CP-5,000—U | 225<br>DA-N | U | III-A |
| WNBZ | Saranac Lake, N. Y. | 100 | 150 | D | IV |
| WJAS | Pittsburgh, Pa. | 1,000<br>5,000—LS<br>CP-5,000—U | 180<br>DA-N | U | III-A |
| WNEL | San Juan, P. R. | 1,000<br>2,500-LS<br>CP-5,000—U | 175 | U | III-A |
| KTRH | Houston, Tex. | 1,000<br>5,000—LS<br>CP-5,000—U | 230<br>DA-N | U | III-A |
| KDYL | Salt Lake City, Utah | 1,000<br>5,000—LS<br>CP-5,000—U | DA | U | III-A |

# United Press Radio News Service

# TAKES THE STUDIO CLOCK OFF YOUR MIND!

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# UNITED PRESS

U.P.

| Call Letters | Location | Power in Watts | Radiation mv/m | Time Designation | Class |
|---|---|---|---|---|---|
| **1330 KILOCYCLES** | | | | | |
| KFAC | Los Angeles, Cal. | 1,000 | 175 | U | III-A |
| KFH | Witchita, Kan. | 1,000<br>5,000—LS<br>CP-5,000—U | 245<br>DA-N | U | III-A |
| WLOL | Minneapolis, Minn. | 1,000 | DA | U | III-B |
| WBBR | Brooklyn, N. Y. | 1,000 | 175 | S-WEVD, WHAZ | III-A |
| WEVD | New York City | 1,000<br>CP-5,000 | DA | S-WBBR, WHAZ | III-A |
| WHAZ | Troy, N. Y. | 1,000 | 175 | S-WBBR, WEVD | III-A |
| KALE | Portland, Ore. | 1,000<br>5,000—LS<br>CP-5,000—U | 180<br>DA-N | U | III-A |
| WFBC | Greenville, S. C. | 1,000<br>5,000—LS<br>CP-5,000—U | 185<br>DA-N | U | III-A |
| WHBL | Sheboygan, Wis. | 250<br>1,000—LS | 200 | U | III-B |
| **1340 KILOCYCLES** | | | | | |
| WSGN | Birmingham, Ala. (†610kc.) | 250 | 150 | U | IV |
| KCRJ | Jerome, Ariz. | 250 | 150 | U | IV |
| KWFC | Hot Springs, Ark. | 250 | 150 | U | IV |
| KARM | Fresno, Cal. | 250 | 200 | U | IV |
| KHUB | Watsonville, Cal. | 250 | 175 | U | IV |
| *KMYR | Denver, Colo. | 100<br>250—LS | 150 | U | IV |
| WINX | Washington, D. C. | 250 | 150 | U | IV |
| *WPER | DeLand, Fla. | 250 | 150 | U | IV |
| WLAK | Lakeland, Fla. | 250 | 180 | U | IV |
| WTAL | Tallahassee, Fla. | 100<br>250—LS | 150 | U | IV |
| WGAU | Athens, Ga. | 250 | 175 | U | IV |
| WSAV | Savannah, Ga. | 250 | 175 | U | IV |
| WDAK | West Point, Ga. | 250 | 150 | U | IV |
| *KHON | Honolulu, Hawaii | 250 | 150 | U | IV |
| WSOY | Decatur, Ill. | 250 | 180 | U | IV |
| WJPF | Herrin, Ill. | 250 | 150 | U | IV |
| WCLS | Joliet, Ill. | 100<br>CP-250 | 185 | U | IV |
| WTRC | Elkhart, Ind. | 250 | 180 | U | IV |
| WLBC | Muncie, Ind. | 250 | 150 | U | IV |
| *NEW | Clinton, Ia. | 250 | 150 | U | IV |
| KCKN | Kansas City, Kan. | 250 | 150 | U | IV |
| WCMI | Ashland, Ky. | 250 | 150 | U | IV |
| WLBJ | Bowling Green, Ky. | 250 | 180 | U | IV |
| KVOL | Lafayette, La. | 250 | 175 | U | IV |
| KRMD | Shreveport, La. | 250 | 150 | U | IV |
| WNBH | New Bedford, Mass. | 250 | 150 | U | IV |
| WBRK | Pittsfield, Mass. | 250 | 150 | U | IV |
| WLAV | Grand Rapids, Mich. | 250 | 150 | U | IV |
| WDMJ | Marquette, Mich. | 250 | 150 | U | IV |
| WEXL | Royal Oak, Mich. | 50<br>CP-250 | 150 | U | IV |
| KVOX | Moorhead, Minn. | 250 | 175 | U | IV |
| KROC | Rochester, Minn. | 250 | 180 | U | IV |
| KWLM | Willmar, Minn. | 100 | 175 | U | IV |
| WJPR | Greenville, Miss. | 250 | 185 | U | IV |
| WAML | Laurel, Miss. | 250 | 180 | U | IV |
| *KHMO | Hannibal, Mo. | 250 | 150 | U | IV |
| KWOS | Jefferson City, Mo. | 250 | 185 | U | IV |
| KWOC | Poplar Bluff, Mo. | 250 | 150 | U | IV |
| KGEZ | Kalispell, Mont. (†1460 kc.) | 100 | 190 | U | IV |
| *KRJF | Miles City, Mont. | 250 | 150 | U | IV |
| KGFW | Kearney, Neb. | 250 | 175 | U | IV |
| WLNH | Laconia, N. H. | 250 | 180 | U | IV |
| KVSF | Santa Fe, N. M. | 100 | 150 | U | IV |
| WMBO | Auburn, N. Y. | 250 | 175 | U | IV |
| WEBR | Buffalo, N. Y. | 250 | 150 | U | IV |
| WMFF | Plattsburg, N. Y. | 250 | 150 | U | IV |
| WGTM | Wilson, N. C. | 250 | 150 | U | IV |
| †WAIR | Winston-Salem, N. C. | 250 | 150 | U | IV |
| WIZE | Springfield, O. | 100 | 150 | U | IV |
| WSTV | Steubenville, O. | 250 | 150 | SH-WSAJ | IV |
| KOCY | Oklahoma City, Okla. | 250 | 150 | U | IV |
| KOME | Tulsa, Okla. | 250 | 195 | U | IV |
| KBND | Bend, Ore. | 250 | 180 | U | IV |
| KUIN | Grants Pass, Ore. | 250 | 150 | U | IV |
| WFBG | Altoona, Pa. | 250 | 150 | U | IV |
| WSAJ | Grove City, Pa. | 100 | 150 | SH | IV |
| WHAT | Philadelphia, Pa. | 100 | 150 | S-WTEL | IV |
| WTEL | Philadelphia, Pa. | 100 | 150 | S-WHAT | IV |
| WRAW | Reading, Pa. | 250 | 150 | U | IV |
| WBRE | Wilkes-Barre, Pa. | 250 | 180 | U | IV |
| WFIG | Sumter, S. C. | 100<br>250—LS | 150 | U | IV |
| KAND | Corsicana, Tex. | 100 | 175 | U | IV |

| Call Letters | Location | Power in Watts | Radiation mv/m | Time Designation | Class |
|---|---|---|---|---|---|
| **1340 KILOCYCLES—Continued** | | | | | |
| KFPL | Dublin, Tex. | 100<br>250—LS | 175 | U | IV |
| KFYO | Lubbock, Tex. | 250 | 150 | U | IV |
| KRBA | Lufkin, Tex. | 250 | 175 | D | IV |
| KPDN | Pampa, Tex. | 100 | 175 | U | IV |
| KVIC | Victoria, Tex. | 250 | 175 | U | IV |
| KSUB | Cedar City, Utah. | 100 | 170 | U | IV |
| WGH | Newport News, Va. | 250 | 170 | U | IV |
| KXRO | Aberdeen, Wash. | 250 | 180 | U | IV |
| WBRW | Welch, W. Va. | 250 | 150 | U | IV |
| WEMP | Milwaukee, Wis. | 250 | 150 | U | IV |
| WFHR | Wisconsin Rapids, Wis. | 250 | 150 | U | IV |
| **1350 KILOCYCLES** | | | | | |
| †KSRO | Santa Rosa, Cal. | 250<br>CP-1,000 | DA | U | III-B |
| KGHF | Pueblo, Colo. | 500 | 175 | U | III-B |
| KID | Idaho Falls, Ida. | 500<br>5,000—LS | 200 | U | III-B |
| KRNT | Des Moines, Ia. | 1,000<br>5,000—LS<br>CP-5,000—U | 210<br>DA-N | U | III-A |
| WSMB | New Orleans, La. | 5,000 | 228<br>DA-N | U | III-A |
| WADC | Akron, O. | 5,000 | DA | U | III-A |
| WORK | York, Pa. | 1,000 | 175<br>DA-N | U | III-B |
| **1360 KILOCYCLES** | | | | | |
| KGB | San Diego, Cal. | 1,000 | 175 | U | III-A |
| WDRC | Hartford, Conn. | 5,000 | DA | U | III-A |
| WKAT | Miami Beach, Fla. | 1,000 | 175 | U | III-B |
| KSCJ | Sioux City, Ia. | 1,000<br>5,000—LS<br>CP-5,000—U | 214<br>DA-N | U | III-A |
| WSAI | Cincinnati, O. | 1,000<br>5,000—LS<br>CP-5,000—U | 250<br>DA-N | U | III-A |
| KRIS | Corpus Christi, Tex. | 500<br>CP-1,000 | 204 | U | III-A |
| KMO | Tacoma, Wash. | 1,000<br>CP-5,000 | 175 | U | III-A |
| WTAQ | Green Bay, Wis. | 5,000 | DA | U | III-A |
| **1370 KILOCYCLES** | | | | | |
| WCOA | Pensacola, Fla. | 500<br>1,000—LS | 175 | U | III-B |
| *KDTH | Dubuque, Ia. | 1,000 | 175<br>DA-N | U | III-B |
| KGNO | Dodge City, Kan. | 250<br>1,000—LS | 175 | U | III-B |
| KGIR | Butte, Mont. | 5,000 | 175 | U | III-A |
| WFEA | Manchester, N. H. | 500<br>1,000—LS<br>CP-5,000—U | DA | U | III-B<br>III-A |
| WFNC | Fayetteville, N. C. | 250 | 150 | D | IV |
| WSPD | Toledo, O. | 5,000 | 175<br>DA-N | U | III-A |
| WPAB | Ponce, P. R. | 1,000 | 175 | U | III-A |
| KFRO | Longview, Tex. | 1,000 | 185<br>DA-N | U | III-B |
| **1380 KILOCYCLES** | | | | | |
| †WTSP | St. Petersburg, Fla. | 250<br>CP-500<br>CP-1,000—LS | 175 | U | III-B |
| KIDO | Boise, Ida. | 1,000<br>2,500—LS | 190 | U | III-A |
| KWK | St. Louis, Mo. | 1,000<br>5,000—LS<br>CP-5,000—U | DA | U | III-A |
| WAWZ | Zarephath, N. J. | 1,000 | DA | S-WBNX | III-A |
| WBNX | New York City | 5,000 | DA | S-WAWZ | III-A |
| *KBWD | Brownwood, Tex. | 500 | 175 | U | III-B |
| KTSM | El Paso, Tex. | 500 | 175 | U | III-B |
| WMBG | Richmond, Va. | 5,000 | 175<br>DA-N | U | III-B |
| **1390 KILOCYCLES** | | | | | |
| KGER | Long Beach, Cal. | 1,000 | 175 | U | III-A |
| WGES | Chicago, Ill. | 500<br>1,000—LS (Sundays)<br>CP-5,000—U | 175<br>DA | SH | III-B<br>III-A |
| WQBC | Vicksburg, Miss. | 1,000 | 175 | D | III |
| WFBL | Syracuse, N. Y. | 5,000 | 235<br>DA-N | U | III-A |
| KLPM | Minot, N. D. | 1,000 | 185 | U | III-A |
| KCRC | Enid, Okla. | 250<br>(Proposed 1,000) | 175 | U | IV<br>III-B |
| KSLM | Salem, Ore. | 1,000 | 180 | U | III-A |
| WCSC | Charleston, S. C. | 500<br>1,000—LS<br>(Proposed 1,000) | 175 | U | III-B<br>III-A |
| †WTJS | Jackson, Tenn. | 250<br>CP-1,000 | DA-N | U | III-B |

| Call Letters | Location | Power in Watts | Radiation mv/m | Time Designation | Class |
|---|---|---|---|---|---|
| **1400 KILOCYCLES** | | | | | |
| WMSL | Decatur, Ala. | 250 | 150 | U | IV |
| WAGF | Dothan, Ala. | 250 | 150 | D | IV |
| WJHO | Opelika, Ala. | 100<br>250—LS | 150 | U | IV |
| KTUC | Tucson, Ariz. | 250 | 150 | U | IV |
| KELD | El Dorado, Ark. | 250 | 150 | U | IV |
| KFPW | Fort Smith, Ark. | 250 | 150 | U | IV |
| KRE | Berkeley, Cal. | 250 | 175 | U | IV |
| KIUP | Durango, Colo. | 250 | 150 | U | IV |
| KOKO | La Junta, Colo. | 100 | 185 | U | IV |
| WNEW | Stamford, Conn. | 250 | 150 | U | IV |
| WFTL | Ft. Lauderdale, Fla. | 250 | 180 | U | IV |
| WMBR | Jacksonville, Fla. | 250 | 175 | U | IV |
| WATL | Atlanta, Ga. | 250 | 150 | U | IV |
| WMGA | Moultrie, Ga. | 250 | 225 | U | IV |
| KRLC | Lewiston, Ida. | 250 | 215 | U | IV |
| WDWS | Champaign, Ill. | 250 | 150 | U | IV |
| WGIL | Galesburg, Ill. | 250 | 150 | U | IV |
| WEOA | Evansville, Ind. | 250 | 150 | U | IV |
| WKMO | Kokomo, Ind. | 250 | 150 | U | IV |
| WGRC | New Albany, Ind. | 250 | 195 | U | IV |
| KFGQ | Boone, Ia. | 100 | 150 | SH-D | IV |
| KVFD | Fort Dodge, Ia. | 250 | 215 | SH | IV |
| KTSW | Emporia, Kan. | 250 | 180 | U | IV |
| KVGB | Great Bend, Kan. | 250 | 185 | U | IV |
| WRDO | Augusta, Me. | 100 | 150 | U | IV |
| WCBM | Baltimore, Md. | 250 | 150 | U | IV |
| WHYN | Holyoke, Mass. | 250 | 150 | U | IV |
| WLLH | Lowell, Mass. | 250 | 150 | U | IV |
| WELL | Battle Creek, Mich. | 250 | 150 | U | IV |
| WHDF | Calumet, Mich. | 250 | 185 | U | IV |
| WJLB | Detroit, Mich | 250 | 150 | U | IV |
| WTCM | Traverse City, Mich. | 250 | 150 | U | IV |
| WMIN | St. Paul, Minn. | 250 | 175 | U | IV |
| WHLB | Virginia, Minn. | 250 | 175 | U | IV |
| WCBI | Columbus, Miss. | 250 | 150 | U | IV |
| WFOR | Hattiesburg, Miss. | 100<br>CP-250 | 150 | U | IV |
| KFVS | Cape Girardeau, Mo. | 250 | 150 | U | IV |
| KFRU | Columbia, Mo. | 250 | 150 | U | IV |
| KORN | Fremont, Neb. | 250 | 190 | U | IV |
| KENO | Las Vegas, Nev. | 250 | 150 | U | IV |
| KICA | Clovis, N. M. | 100 | 175 | U | IV |
| KGFL | Roswell, N. M. | 100 | 150 | U | IV |
| WABY | Albany, N. Y. | 250 | 150 | U | IV |
| WBNY | Buffalo, N. Y. | 250 | 150 | All hours except those WSVS operates | IV |
| WSVS | Buffalo, N. Y. | 50 | 150 | SH-D-WBNY | IV |
| WSLB | Ogdensburg, N. Y. | 250 | 150 | U | IV |
| WISE | Asheville, N. C. | 250 | 150 | U | IV |
| WCNC | Elizabeth City, N. C. | 250 | 175 | U | IV |
| WGBR | Goldsboro, N. C. | 250 | 180 | U | IV |
| WHKY | Hickory, N. C. | 250 | 150 | U | IV |
| WMFD | Wilmington, N. C. | 100<br>250—LS | 150 | U | IV |
| KRMC | Jamestown, N. D. | 250 | 180 | U | IV |
| WMAN | Mansfield, O. | 250 | 175 | U | IV |
| WPAY | Portsmouth, O. | 100<br>CP-250 | 150 | U | IV |
| KTOK | Oklahoma City, Okla. | 250 | 175 | U | IV |
| WEST | Easton, Pa. | 250 | 170 | U | IV |
| WJAC | Johnstown, Pa. | 250 | 150 | U | IV |
| WDAS | Philadelphia, Pa. | 250 | 185 | U | IV |
| WARM | Scranton, Pa. | 250 | 150 | U | IV |
| WRAK | Williamsport, Pa. | 250 | 180 | U | IV |
| WCOS | Columbia, S. C. | 250 | 190 | U | IV |
| WORD | Spartanburg, S. C. | 250 | 150 | U | IV |
| KOBH | Rapid City, S. D | 250 | 150 | U | IV |
| WDEF | Chattanooga, Tenn. | 250 | 150 | U | IV |
| WJZM | Clarksville, Tenn. | 250 | 150 | U | IV |
| WHUB | Cookeville, Tenn. | 250 | 150 | U | IV |
| WKPT | Kingsport, Tenn. | 250 | 150 | U | IV |
| WHBQ | Memphis, Tenn. | 100 | 150 | U | IV |
| KLUF | Galveston, Tex. | 250 | 175 | U | IV |
| KIUN | Pecos, Tex. | 100 | 150 | U | IV |
| KGKL | San Angelo, Tex. | 250 | 175 | U | IV |
| KMAC | San Antonio, Tex. | 250 | 175 | S-KONO | IV |
| KONO | San Antonio, Tex. | 250 | 150 | S-KMAC | IV |
| KTEM | Temple, Tex. | 250 | 175 | U | IV |
| WBTM | Danville, Va. | 100<br>250—LS | 150 | U | IV |
| WINC | Winchester, Va. | 250 | 150 | U | IV |
| KRKO | Everett, Wash. | 50<br>CP-100<br>CP-250—LS | 150 | S-KEVR | IV |
| KWLK | Longview, Wash. | 250 | 150 | U | IV |
| KEVR | Seattle, Wash. | 100 | 150 | S-KRKO | IV |
| WBLK | Clarksburg, W. Va. | 250 | 200 | U | IV |
| WKWK | Wheeling, W. Va. | 250 | 150 | U | IV |
| WBTH | Williamson, W. Va. | 250 | 150 | U | IV |
| WATW | Ashland, Wis. | 100 | 150 | U | IV |
| WRJN | Racine, Wis. | 250 | 175 | U | IV |
| WSAU | Wausau, Wis. | 250 | 150 | U | IV |
| KYAN | Cheyenne, Wyo. | 250 | 190 | U | IV |
| KVRS | Rock Springs, Wyo. | 250 | 175 | U | IV |
| KWYO | Sheridan, Wyo. | 250 | 185 | U | IV |
| **1410 KILOCYCLES** | | | | | |
| WALA | Mobile, Ala. | 500<br>1,000—LS<br>CP-5,000—U | 190<br>DA-N | U | III-A |
| KERN | Bakersfield, Cal. | 1,000 | 175 | U | III-A |
| WNBC | New Britian, Conn. | 1,000<br>CP-5,000—LS | DA | U | III-B |
| WING | Dayton, O. | 5,000 | 175<br>DA-N | U | III-A |
| KQV | Pittsburgh, Pa. | 1,000 | 185<br>DA-N | U | III-B |
| WKBH | La Crosse, Wis. | 1,000<br>CP-5,000 | 200<br>DA-N | U | III-A |
| **1420 KILOCYCLES** | | | | | |
| KLRA | Little Rock, Ark. | 5,000 | 215<br>DA-N | U | III-A |
| WHK | Cleveland, O. | 5,000 | 205<br>DA-N | U | III-A |
| *WFCI | Pawtucket, R. I. | 1,000 | DA | U | III-B |
| KABR | Aberdeen, S. D. | 500<br>1,000—LS<br>CP-5,000—U | 194<br>DA-N | U | III-A |
| WWSR | St. Albans, Vt. | 1,000 | 175 | D | III |
| †KUJ | Walla Walla, Wash. | 100<br>CP-1,000 | 175 | U | III-A |
| WPRP | San Juan, P. R.<br>(†1520 kc.) | 250 | 150 | U | IV |
| **1430 KILOCYCLES** | | | | | |
| WIRE | Indianapolis, Ind. | 5,000 | 244<br>DA-N | U | III-A |
| WARD | Brooklyn, N. Y. | 500 | 180 | S-WBBC, WLTH, WVFW | III-B |
| WBBC | Brooklyn, N. Y. | 500 | 175 | S-WARD, WLTH, WVFW | III-B |
| WVFW | Brooklyn, N. Y. | 500 | 175 | S-WARD, WBBC, WLTH | III-B |
| WLTH | New York City | 500 | 175 | S-WARD, WBBC, WVFW | III-B |
| KTUL | Tulsa, Okla. | 5,000 | 238<br>DA-N | U | III-A |
| KLO | Ogden, Utah | 5,000 | DA | U | III-A |
| **1440 KILOCYCLES** | | | | | |
| WSFA | Montgomery, Ala. | 500<br>1,000—LS | 190 | U | III-B |
| WROK | Rockford, Ill. | 500<br>1,000—LS | 200 | U | III-B |
| WAAB | Boston, Mass. | 1,000 | 250 | U | III-A |
| WBCM | Bay City, Mich. | 500<br>1,000—LS | 175 | U | III-B |
| KFJM | Grand Forks, N. D. | 500<br>1,000—LS | 175 | U | III-B |
| KMED | Medford, Ore. | 1,000 | 175 | U | III-A |
| KGNC | Amarillo, Tex. | 1,000<br>2,500—LS<br>CP-5,000—LS | 175 | U | III-A |
| WHIS | Bluefield, W. Va. | 500<br>1,000—LS | 175 | U | III-B |
| **1450 KILOCYCLES** | | | | | |
| WHMA | Anniston, Ala. | 250 | 150 | U | IV |
| WMSD | Muscle Shoals City, Ala. | 250 | 150 | U | IV |
| KGLU | Safford, Ariz. | 250 | 175 | U | IV |
| KMYC | Marysville, Cal. | 100 | 150 | U | IV |
| *KFMB | San Diego, Cal. | 250 | 150 | U | IV |
| KSAN | San Francisco, Cal. | 250 | 150 | U | IV |
| KGIW | Alamosa, Colo. | 100 | 150 | SH-KIDW | IV |
| KIDW | Lamar, Colo. | 100 | 150 | SH-KGIW | IV |
| *WNAB | Bridgeport, Conn. | 250 | 150 | U | IV |
| WILM | Wilmington, Del. | 250 | 150 | U | IV |
| *WWDC | Washington, D. C. | 250 | 150 | U | IV |
| WMFJ | Daytona Beach, Fla. | 250 | 150 | U | IV |
| WSPB | Sarasota, Fla. | 250 | 180 | U | IV |
| WGPC | Albany, Ga. | 250 | 150 | U | IV |
| *WMWH | Augusta, Ga. | 250 | 150 | U | IV |
| WKEU | Griffin, Ga. | 100 | 150 | U | IV |
| *WRLC | Toccoa, Ga. | 250 | 150 | U | IV |
| WGOV | Valdosta, Ga. | 250 | 150 | U | IV |
| KWAL | Wallace, Ida. | 250 | 185 | U | IV |
| WHFC | Cicero, Ill. | 250 | 150 | U | IV |
| WCBS | Springfield, Ill. | 250 | 150 | U | IV |
| WGL | Fort Wayne, Ind. | 250 | 150 | U | IV |
| WAOV | Vincennes, Ind. | 100 | 150 | U | IV |
| WOC | Davenport, Ia. | 250 | 150 | U | IV |
| KTRI | Sioux City, Ia. | 250 | 150 | U | IV |
| KVAK | Atchison, Kan. | 100 | 175 | U | IV |
| KWBG | Hutchison, Kan. | 100 | 150 | U | IV |
| *WHLN | Harlan, Ky. | 250 | 150 | U | IV |
| WLAP | Lexington, Ky. | 250 | 150 | U | IV |
| WPAD | Paducah, Ky. | 250 | 185 | U | IV |

| Call Letters | Location | Power in Watts | Radiation mv/m | Time Designation | Class |
|---|---|---|---|---|---|
| **1450 KILOCYCLES—Continued** | | | | | |
| WNOE | New Orleans, La. | 250 | 180 | U | IV |
| WAGM | Presque Isle, Me. | 100 | 150 | SH | IV |
| WMAS | Springfield, Mass. | 250 | 240 | U | IV |
| WJMS | Ironwood, Mich. | 250 | 150 | U | IV |
| WIBM | Jackson, Mich. | 250 | 150 | U | IV |
| WHLS | Port Huron, Mich. | 250 | 190 | U | IV |
| KATE | Albert Lea, Minn. | 250 | 150 | U | IV |
| KFAM | St. Cloud, Minn. | 250 | 185 | U | IV |
| WSLI | Jackson, Miss. | 250 | 180 | U | IV |
| WMBH | Joplin, Mo. | 250 | 200 | U | IV |
| KRBM | Bozeman, Mont. | 250 | 175 | U | IV |
| WFPG | Atlantic City, N. J. | 250 | 150 | U | IV |
| *NEW | Endicott, N. Y. | 250 | 150 | U | IV |
| WHDL | Olean, N. Y. | 250 | 210 | U | IV |
| WKIP | Poughkeepsie, N. Y. | 250 | 150 | U | IV |
| WGNC | Gastonia, N. C. | 250 | 150 | U | IV |
| WEED | Rocky Mount, N. C. | 250 | 175 | U | IV |
| WFMJ | Youngstown, O. | 250 | 150 | U | IV |
| KGFF | Shawnee, Okla. | 250 | 200 | U | IV |
| KORE | Eugene, Ore. | 250 | 150 | U | IV |
| KLBM | La Grande, Ore. | 250 | 185 | U | IV |
| KBPS | Portland, Ore. | 100 | 150 | S-KXL | IV |
| KXL | Portland, Ore. | 250 | 150 | S-KBPS | IV |
| WLEU | Erie, Pa. | 250 | 150 | U | IV |
| WAZL | Hazleton, Pa. | 250 | 150 | U | IV |
| *WMDF | Greenwood, S. C. | 250 | 150 | U | IV |
| KRBC | Abilene, Tex. | 250 | 175 | U | IV |
| KRIC | Beaumont, Tex. | 250 | 175 | U | IV |
| KDNT | Denton, Tex. | 100 | 150 | U | IV |
| KRLH | Midland, Tex. | 100<br>CP-250 | 150 | U | IV |
| KNET | Palestine, Tex. | 100 | 150 | D | IV |
| KABC | San Antonio, Tex. | 250 | 150 | U | IV |
| KCMC | Texarkana, Tex. | 250 | 150 | U | IV |
| WACO | Waco, Tex. | 250 | 150 | U | IV |
| KEUB | Price, Utah | 250 | 175 | U | IV |
| WCHV | Charlottesville, Va. | 250 | 175 | U | IV |
| *WMVA | Martinsville, Va. | 100<br>250—LS | 150 | U | IV |
| WLPM | Suffolk, Va. | 250 | 180 | U | IV |
| WPAR | Parkersburg, W. Va. | 100<br>CP-250 | 150 | U | IV |
| KFIZ | Fond du Lac, Wis. | 100 | 150 | U | IV |
| **1460 KILOCYCLES** | | | | | |
| KINY | Juneau, Alaska | 1,000 | 200 | U | III-A |
| KSO | Des Moines, Ia. | 1,000<br>5,000—LS<br>CP-5,000—U | 234<br>DA-N | U | III-A |
| †KGEZ | Kalispell, Mont. | 1,000 | DA | U | III-B |
| KGNF | North Platte, Neb. | 1,000 | 175 | D | III |
| WOKO | Albany, N. Y. | 500<br>1,000—LS | 175 | U | III-B |
| WHEC | Rochester, N. Y. | 500<br>1,000—LS | 220 | U | III-B |
| WBNS | Columbus, O. | 1,000<br>5,000—LS | 190<br>DA-N | U | III-B |
| WHP | Harrisburg, Pa. | 1,000<br>5,000—LS | 193<br>DA-N | U | III-B |
| WMPS | Memphis, Tenn. | 500<br>1,000—LS | 175 | U | III-B |
| **1470 KILOCYCLES** | | | | | |
| WMBD | Peoria, Ill. | 1,000<br>5,000—LS | 205 | U | III-B |
| WBIG | Greensboro, N. C. | 1,000<br>5,000—LS<br>CP-5,000—U | 225<br>DA-N | U | III-A |
| WCBA | Allentown, Pa. | 500 | 180 | S-WSAN | III-B |
| WSAN | Allentown, Pa. | 500 | 180 | S-WCBA | III-B |
| KXYZ | Houston, Tex. | 1,000 | 175 | U | III-A |
| KELA | Centralia, Wash. | 1,000 | 190 | U | III-A |
| KDFN | Casper, Wyo. | 1,000 | 210 | U | III-B |
| **1480 KILOCYCLES** | | | | | |
| KIEM | Eureka, Cal. | 500<br>1,000—LS | 175 | U | III-B |
| WAGA | Atlanta, Ga. | 500<br>1,000—LS | 240 | U | III-B |
| KTBS | Shreveport, La. | 1,000 | 175 | U | III-B |
| WSAR | Fall River, Mass. | 1,000 | DA | U | III-B |
| KCMO | Kansas City, Mo. | 1,000<br>5,000—LS | 179<br>DA-N | U | III-B |
| KGCX | Wolf Point, Mont. | 1,000 | 175 | U | III-A |
| WHOM | Jersey City, N. J. | 500<br>1,000—LS | 230<br>DA-N | U | III-B |
| WGAR | Cleveland, O. | 1,000<br>5,000—LS | 233<br>DA-N | U | III-B |
| **1490 KILOCYCLES** | | | | | |
| WHBB | Selma, Ala. | 100 | 150 | U | IV |
| KYCA | Prescott, Ariz. | 250 | 150 | U | IV |
| KOTN | Pine Bluff, Ark. | 250 | 150 | U | IV |
| KXO | El Centro. Cal, | 100 | 150 | U | IV |
| KVOE | Santa Ana, Cal. | 250 | 175 | U | IV |
| KDB | Santa Barbara, Cal. | 250 | 150 | U | IV |
| WNLC | New London, Conn. | 250 | 175 | U | IV |
| WTMC | Ocala. Fla, | 100 | 175 | U | IV |
| WRDW | Augusta, Ga. | 250 | 190 | U | IV |
| WMOG | Brunswick, Ga. | 100<br>250—LS | 180 | U | IV |
| WMJM | Cordele, Ga. | 100<br>250—LS | 180 | U | IV |

| Call Letters | Location | Power in Watts | Radiation mv/m | Time Designation | Class |
|---|---|---|---|---|---|
| **1490 KILOCYCLES—Continued** | | | | | |
| WRGA | Rome, Ga. | 250 | 150 | U | IV |
| KTOH | Lihue, Hawaii | 250 | 150 | U | IV |
| *WKRO | Cairo, Ill. | 250 | 150 | U | IV |
| WDAN | Danville, Ill. | 250 | 230 | U | IV |
| WTMV | East St. Louis, Ill. | 250 | 150 | U | IV |
| WKBV | Richmond, Ind. | 100 | 150 | U | IV |
| *KBUR | Burlington, Ia. | 250 | 150 | U | IV |
| WKBB | Dubuque, Ia. | 250 | 200 | U | IV |
| WOMI | Owensboro, Ky. | 250 | 180 | U | IV |
| KPLC | Lake Charles, La. | 250 | 150 | U | IV |
| WJBK | Detroit, Mich. | 250 | 150 | U | IV |
| *WDBC | Escanaba, Mich. | 250 | 150 | U | IV |
| WKBZ | Muskegon, Mich. | 250 | 190 | U | IV |
| KDAL | Duluth, Minn. | 250 | 150 | U | IV |
| *NEW | Natchez, Miss. | 250 | 150 | U | IV |
| KDRO | Sedalia, Mo. | 250 | 180 | U | IV |
| *KONB | Omaha, Neb. | 250 | 150 | U | IV |
| KGKY | Scottsbluff, Neb. | 250 | 150 | U | IV |
| WBAB | Atlantic City, N. J | 250 | 150 | U | IV |
| KAWM | Gallup, N. M. | 100 | 150 | U | IV |
| KWEW | Hobbs, N. M. | 100 | 180 | U | IV |
| *WBTA | Batavia, N. Y. | 250 | 150 | U | IV |
| WNBF | Binghamton, N. Y. | 250 | 200 | U | IV |
| WOLF | Syracuse, N. Y. | 250 | 150 | U | IV |
| WKNY | Kingston, N. Y. | 250 | 185 | U | IV |
| WDNC | Durham, N. C. | 250 | 225 | U | IV |
| WGTC | Greenville, N. C. | 250 | 220 | U | IV |
| WSTP | Salisbury, N. C. | 250 | 225 | U | IV |
| KOVC | Valley City, N. D. | 250 | 150 | U | IV |
| WMRN | Marion, O. | 250 | 150 | U | IV |
| KBIX | Muskogee, Okla. | 100<br>CP-250 | 150 | U | IV |
| KBKR | Baker, Ore. | 250 | 180 | U | IV |
| KRNR | Roseburg, Ore. | 100<br>250—LS | 150 | U | IV |
| *WERC | Erie, Pa. | 100<br>250—LS | 150 | U | IV |
| WGAL | Lancaster, Pa. | 250 | 150 | U | IV |
| *WMRF | Lewistown, Pa. | 250 | 150 | U | IV |
| WWSW | Pittsburgh, Pa. | 250 | 175 | U | IV |
| WMRC | Greenville, S. C | 250 | 150 | U | IV |
| WOPI | Bristol, Tenn. | 250 | 150 | U | IV |
| KNOW | Austin, Tex. | 250 | 150 | U | IV |
| KBST | Big Spring, Tex. | 100 | 180 | U | IV |
| KNEL | Brady, Tex. | 100<br>250—LS | 150 | U | IV |
| KGFI | Brownsville, Tex. | 100<br>250—LS | 150 | U | IV |
| *KEYS | Corpus Christi, Tex. | 250 | 150 | U | IV |
| KSAM | Huntsville, Tex. | 250 | 150 | D | IV |
| KPAB | Laredo, Tex. | 250 | 175 | U | IV |
| KPLT | Paris, Tex. | 250 | 175 | U | IV |
| KGKB | Tyler, Tex. | 250 | 175 | U | IV |
| KVWC | Vernon, Tex. | 250 | 175 | U | IV |
| WSYB | Rutland, Vt. | 250 | 175 | U | IV |
| WSLS | Roanoke, Va. | 250 | 150 | U | IV |
| KPQ | Wenatchee, Wash. | 250 | 195 | U | IV |
| WGKV | Charleston, W. Va. | 100 | 175 | U | IV |
| *WIGM | Medford, Wis. | 100 | 150 | U | IV |
| **1500 KILOCYCLES** | | | | | |
| WJSV | Washington, D. C. | 50,000 | DA | U | I-B |
| KSTP | St. Paul, Minn. | 50,000 | DA | U | I-B |
| **1510 KILOCYCLES** | | | | | |
| WMEX | Boston, Mass. | 5,000 | DA | U | II |
| WLAC | Nashville, Tenn. | 5,000<br>(Proposed 50,000) | 225<br>DA-N | U | II<br>I-B |
| KGA | Spokane, Wash. | 5,000<br>(Proposed 10,000) | 200<br>DA | U | II<br>I-B |
| **1520 KILOCYCLES** | | | | | |
| WHIP | Hammond, Ind. | 5,000 | DA | 6 a.m. to LS Buffalo, N. Y. | II |
| WKBW | Buffalo, N. Y. | 5,000<br>CP-50,000 | 250<br>DA | U | II<br>I-B |
| KOMA | Oklahoma City, Okla. | 5,000<br>(Proposed 50,000) | 225<br>DA-N | U | II<br>I-B |
| †WPRP | Ponce, P. R. | 1,000<br>5,000—LS | 175 | U | II |
| **1530 KILOCYCLES** | | | | | |
| KFBK | Sacramento, Cal. | 10,000 | 235<br>(Proposed DA) | U | I-B |
| WCKY | Cincinnati, O. | 50,000 | DA | U | I-B |
| **1560 KILOCYCLES** | | | | | |
| WQXR | New York City | 5,000<br>(Proposed 10,000) | DA | U | II |
| **1590 KILOCYCLES** | | | | | |
| WBRY | Waterbury, Conn. | 1,000<br>CP-5,000 | DA | U | III-A |
| *WALB | Albany, Ga. | 1,000 | DA-N | U | III-A |
| KITE | Kansas City, Mo. | 1,000 | 175 | U | III-A |
| WAKR | Akron, O. | 1,000 | DA | U | III-A |
| **1600 KILOCYCLES** | | | | | |
| KPMC | Bakersfield, Cal. | 1,000 | 175 | U | III-A |
| WCNW | Brooklyn, N. Y. | 250<br>(Proposed 500) | 175 | S-WWRL<br>(Proposed | IV<br>III-B) |
| WWRL | Woodside, N. Y. | 250<br>(Proposed 500) | 175 | S-WCNW<br>(Proposed | IV<br>III-B) |

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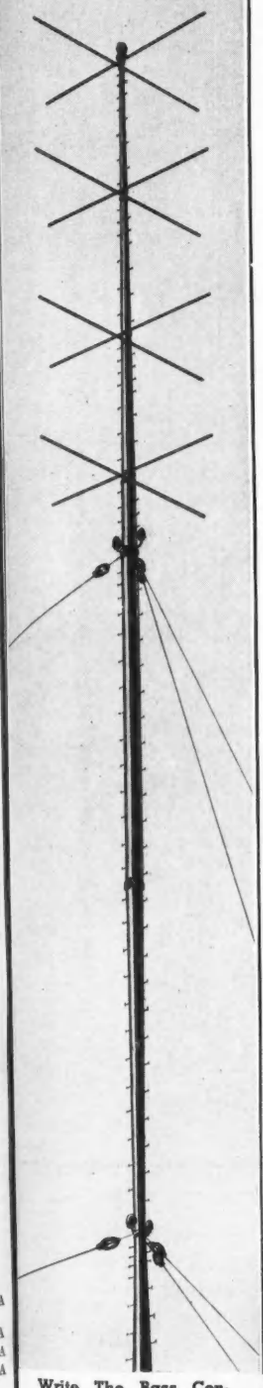

# MONOTUBE VERTICAL RADIATORS

*Plus F-M. High Gain Arrays*

## OFFER YOU THESE ADVANTAGES:

LONGER LIFE √ UNIFORM REACTANCE √ SIMPLE TO DISMANTLE AND MOVE √ GREATER STRENGTH WITH LESS WEIGHT √ 65 to 100 FEET BETWEEN GUY LEVELS √ EASY DELIVERY AND ERECTION √ LOW MAINTENANCE COSTS √ THE IDEAL UNIFORM CROSS SECTION √ √ √

★ ★ ★

• All Monotube Radiators are constructed of a series of guyed double-tapered hollow steel tubes designed and guaranteed to withstand pressures developed during a HURRICANE with wind velocities of 100 mph., a one-half inch ice load, and a temperature change of plus and minus 50 degrees Fahrenheit. To this is added a safety factor of 3.6 on the steel and 5.0 on the guy assemblies.

The articulated joint used between the sections prevents the transference of bending moments (introduced by wind) from section to section, thus placing the point of maximum stress in the center of each isolated section; the stress curve falling off to each end.

The taper used in the MONOTUBE sections follows this stress curve, placing the greatest diameter and most material in the center at the point of maximum stress and lessening the diameter and amount of material at the ends at the points of minimum stress.

Each MONOTUBE RADIATOR is individually engineered against power and frequency to properly sectionalize the guy cable assemblies against the eighth harmonic thus eliminating absorption, reflection, and directivity in the cables which would otherwise introduce serious distortion in the theoretical field pattern. Insulation in all cases is designed to maintain non-resonance in the guy cables during adverse weather conditions.

Our attention to these details in the guy-cable design makes the MONOTUBE RADIATORS the ideal units for Directional Antenna Systems.

Write The Bass Construction Co., Cleveland, Ohio, for quotation on your antenna system completely erected, painted, and lighted. Enclose frequency, power, and height.

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# Log of Canadian Broadcast Stations

**Call Letter List Showing New Assignments Effective March 29, 1941 Under the Havana Treaty**

**(As released by Radio Branch, Department of Transport, Dominion of Canada, Ottawa)**

**ABBREVIATIONS**

**D—Daytime. N—Night Time. DA—Directional Antenna**

| Call Letters | Location | Power in Watts | Frequency in Kc. | Class |
|---|---|---|---|---|
| CBA | Sackville, N. B. | 50,000 | 1070 | I-B |
| CBF | Montreal, Que. | 50,000 | 690 | I-A |
| CBJ | Chicoutimi, Que | 100 | 1240 | IV |
| CBK | Watrous, Sask. | 50,000 | 540 | I-A |
| CBL | Toronto, Ont. | 50,000 | 740 | I-A |
| CBM | Montreal, Que. | 5,000 | 940 | I-B |
| CBO | Ottawa, Ont. | 1,000 | 910 | III-B |
| CBR | Vancouver, B. C. | 5,000 | 1130 | I-B |
| CBV | Quebec, Que. | 1,000 | 980 | III-A |
| CBY | Toronto, Ont. | 1,000 | 1010 | II |
| CFAC | Calgary, Alta. | 1,000 | 960 | III-A |
| CFAR | Flin Flon, Man | 100 | 1400 | IV |
| CFCF | Montreal, Que. | 500 | 600 | III-B |
| CFCH | North Bay, Ont. | 100 | 1230 | IV |
| CFCN | Calgary, Alta. | 10,000 | 1010 | I-A |
| CFCO | Chatham, Ont. | 100 | 630 | IV |
| CFCT | Victoria, B. C. | 500 | 1480 | III-B |
| CFCY | Charlottetown, P. E. I. | 1,000 | 630 | III-A |
| CFGP | Grande Prairie, Alta. | 250 | 1340 | IV |
| CFJC | Kamloops, B. C. | 1,000 | 910 | III-A |
| CFLC | Prescott, Ont | 100 | 1450 | IV |
| CFNB | Fredericton, N. B | 1,000 | 550 | III-B |
| CFOS | Owen Sound, Ont. | 100 | 1400 | IV |
| CFPL | London, Ont. | 1,000 | 1570 | II |
| CFPR | Prince Rupert, B. C. | 50 | 1240 | IV |
| CFQC | Saskatoon, Sask. | 1,000 | 600 | III-A |
| CFRB | Toronto, Ont. | 10,000 | 860 | I-A |
| CFRC | Kingston, Ont. | 100 | 1490 | IV |
| CFRN | Edmonton, Alta. | 1,000 | 1260 | III-A |
| CHAB | Moose Jaw, Sask. | 1,000 | 1220 | II |
| CHCK | Charlottetown, P. E. I. | 50 | 1340 | IV |
| CHGB | Ste Anne de la Pocatiere, Que. | 100 | 1230 | IV |
| CHGS | Summerside, P. E. I. | 50 | 1480 | IV |
| CHLN | Three Rivers, Que. | 100 | 1450 | IV |
| CHLP | Montreal, Que. | 100 | 1490 | IV |
| CHLT | Sherbrooke, Que. | 100 | 1240 | IV |
| CHML | Hamilton, Ont. | 1,000 | 900 | II |
| CHNC | New Carlisle, Que. | 1,000 | 610 | III-A |
| CHNS | Halifax, N. S. | 1,000 | 960 | III-A |
| CHRC | Quebec, Que. | 100 | 1400 | IV |
| CHSJ | St. John, N. B. | 1,000 | 1150 | III-B |
| CHWK | Chilliwack, B. C. | 100 | 1340 | IV |
| CJAT | Trail, B. C. | 1,000 | 610 | III-B |
| CJBR | Rimouski, Que. | 1,000 | 900 | II |
| CJCA | Edmonton, Alta. | 1,000 | 930 | III-A |
| CJCB | Sydney, N. S. | 1,000 | 1270 | III-A |
| CJCJ | Calgary, Alta. | 100 | 1230 | IV |
| CJCS | Stratford, Ont. | 50 | 1240 | IV |
| CJGX | Yorkton, Sask. | 1,000 | 1460 | III-A |
| CJIC | Sault Ste. Marie, Ont. | 100 | 1490 | IV |
| CJKL | Kirkland Lake, Ont. | 1,000 | 560 | III-B |
| CJLS | Yarmouth, N. S. | 100 | 1340 | IV |
| CJOC | Lethbridge, Alta. | 100 | 1400 | IV |
| CJOR | Vancouver, B. C. | 1,000 | 600 | III-A |
| CJRC | Winnipeg, Man. | 1,000 | 630 | III-A |
| CJRM | Regina, Sask. | 1,000 | 980 | III-B |
| CKAC | Montreal, Que. | 5,000 | 730 | II |
| CKBI | Prince Albert, Sask. | 1,000 | 900 | II |
| CKCA | Kenora, Ont. | 100–N.<br>250–D. | 1450 | IV |
| CKCH | Hull, Que. | 100 | 1240 | IV |
| CKCK | Regina, Sask. | 1,000 | 620 | III-B |
| CKCL | Toronto, Ont. | 1,000–DA | 580 | III-B |
| CKCO | Ottawa, Ont. | 100 | 1340 | IV |
| CKCR | Waterloo, Ont. | 100 | 1490 | IV |
| CKCV | Quebec, Que. | 100 | 1340 | IV |
| CKCW | Moncton, N. B. | 100 | 1400 | IV |
| CKGB | Timmins, Ont. | 1,000 | 1470 | III-B |
| CKLN | Nelson, B. C. | 100 | 1450 | IV |
| CKLW | Windsor, Ont. | 5,000 | 800 | II |
| CKMC | Cobalt, Ont. | 50 | 1240 | IV |
| CKMO | Vancouver, B. C. | 1,000 | 1410 | III-A |
| CKNB | Campbellton, N. B. | 100 | 1240 | IV |
| CKNX | Wingham, Ont. | 100 | 1230 | IV |
| CKOC | Hamilton, Ont. | 500–N.<br>1,000–D. | 1150 | III-B |
| CKOV | Kelowna, B. C. | 1,000 | 630 | III-A |
| CKPC | Brantford, Ont. | 100 | 1380 | IV |
| CKPR | Port Arthur, Ont. | 1,000 | 580 | III-A |
| CKRN | Rouyn, Que. | 250 | 1400 | IV |
| CKSO | Sudbury, Ont. | 1,000 | 790 | III-B |
| CKTB | St. Catharines, Ont. | 100<br>CP-1,000 | 1230<br>CP-1550 | IV<br>I-B |
| CKUA | Edmonton, Alta. | 1,000 | 580 | III-A |
| CKVD | Val d'Or, Que. | 100 | 1230 | IV |
| CKWX | Vancouver, B. C. | 1,000 | 980 | III-A |
| CKX | Brandon, Man. | 1,000 | 1150 | III-A |
| CKY | Winnipeg, Man. | 15,000 | 990 | I-A |


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## CANADIAN BROADCASTING CORPORATION

# Log of Canadian Broadcast Stations

**Frequency List Showing New Assignments Effective March 29, 1941 Under the Havana Treaty**

**(As released by Radio Branch, Department of Transport, Dominion of Canada, Ottawa)**

**ABBREVIATIONS**

**D—Daytime. N—Night Time. DA—Directional Antenna**

| Call Letter | Location | Power in Watts | Radiation mv/m | Class |
|---|---|---|---|---|
| **540 KILOCYCLES** | | | | |
| CBK | Watrous, Sask. | 50,000 | 250 | I-A |
| **550 KILOCYCLES** | | | | |
| CFNB | Fredericton, N. B. | 1,000 | 150 | III-B |
| **560 KILOCYCLES** | | | | |
| CJKL | Kirkland Lake, Ont. | 1,000 | 160 | III-B |

This assignment is agreed to between the United States and Canada as listed. Canada agrees to interpose no objection to an increase in the operating power of WFIL to 5 kw with the radiation to Kirkland Lake on the bearing 338 degrees not to exceed 392 mv/m unattenuated at one mile (that produced by a nondirectional 5 kw station having 175 mv/m at one mile for 1 kw). It is further agreed that the frequency 1220 kc will not be assigned within the United States for a reasonable time to permit assignment of CJKL to this frequency if the station should so elect. If subsequent investigations indicate the frequency 560 kc to be more desirable and CJKL elects to remain on this channel under the aforementioned conditions, further use of the frequency 1220 kc in the northeastern portion of North America will be the subject of further negotiations on the basis of established priorities.

| | | | | |
|---|---|---|---|---|
| **580 KILOCYCLES** | | | | |
| CKUA | Edmonton, Alta. | 1,000 | 125 | III-A |
| CKPR | Port Arthur, Ont. | 1,000 | 180 | III-A |
| CKCL | Toronto, Ont. | 1,000 | DA | III-B |
| **600 KILOCYCLES** | | | | |
| CJOR | Vancouver, B. C. | 1,000 | 145 | III-A |
| CFQC | Saskatoon, Sask. | 1,000 | 150 | III-A |
| CFCF | Montreal, Que. | 500 | 125 | III-B |
| **610 KILOCYCLES** | | | | |
| CJAT | Trail, B. C. | 1,000 | 185 | III-B |
| CHNC | New Carlisle | 1,000 | 150 | III-A |
| **620 KILOCYCLES** | | | | |
| CKCK | Regina, Sask. | 1,000 | 175 | III-B |
| **630 KILOCYCLES** | | | | |
| CFCY | Charlottetown, P. E. I. | 1,000 | 150 | III-A |
| CFCO | Chatham, Ont. | 100 | 125 | IV |
| CKOV | Kelowna, B. C. | 1,000 | 150 | III-A |
| CJRC | Winnipeg, Man. | 1,000 | 175 | III-A |
| **690 KILOCYCLES** | | | | |
| CBF | Montreal, Que. | 50,000 | 250 | I-A |
| **730 KILOCYCLES** | | | | |
| CKAC | Montreal, Que. | 5,000 | 165 | II |

This assignment is accepted by Mexico subject to a directional antenna if objectionable interference exists on the Mexican border as a result of the operation of this station at night.

| | | | | |
|---|---|---|---|---|
| **740 KILOCYCLES** | | | | |
| CBL | Toronto, Ont. | 50,000 | 250 | I-A |
| **790 KILOCYCLES** | | | | |
| CKSO | Sudbury, Ont. | 1,000 | 150 | III-B |
| **800 KILOCYCLES** | | | | |
| CKLW | Windsor, Ont. | 5,000 | 190 | II |
| **860 KILOCYCLES** | | | | |
| CFRB | Toronto, Ont. | 10,000 | 150 | I-A |
| **900 KILOCYCLES** | | | | |
| CJBR | Rimouski, Que. | 1,000 | 180 | II |
| CHML | Hamilton, Ont. | 1,000 | DA | II |
| CKBI | Prince Albert, Sask. | 1,000 | 165 | II |
| **910 KILOCYCLES** | | | | |
| CBO | Ottawa, Ont. | 1,000 | 160 | III-B |
| CFJC | Kamloops, B. C. | 1,000 | 150 | III-A |
| **930 KILOCYCLES** | | | | |
| CJCA | Edmonton, Alta. | 1,000 | 130 | III-A |
| **940 KILOCYCLES** | | | | |
| CBM | Montreal, Que. | 5,000 | 172 | I-B |
| **960 KILOCYCLES** | | | | |
| CFAC | Calgary, Alta. | 1,000 | 175 | III-A |
| CHNS | Halifax, N. S. | 1,000 | 160 | III-A |
| **980 KILOCYCLES** | | | | |
| CJRM | Regina, Sask. | 1,000 | 160 | III-B |

KMBC permitted to continue operation with 5 kw power, unlimited time and the directional antenna now installed and on file with the Federal Communications Commission and the Department of Transport subject to the determination of actual interference to CJRM in accordance with the provision for such determination established by the Treaty. If interference is found to exist to greater than 4 mv/m, appropriate action by the Commission will be taken to require KMBC to reduce the radiation on the bearing 331 degrees to such an amount that the limitation at Regina does not exceed 4 mv/m.

| | | | | |
|---|---|---|---|---|
| CBV | Quebec, Que. | 1,000 | 185 | III-A |
| CKWX | Vancouver, B. C. | 1,000 | 125 | III-A |
| **990 KILOCYCLES** | | | | |
| CKY | Winnipeg, Man. | 15,000 | 155 | I-A |
| **1010 KILOCYCLES** | | | | |
| CFCN | Calgary, Alta. | 10,000 | 170 | I-A |
| CBY | Toronto, Ont. | 1,000 | 195 | II |
| **1070 KILOCYCLES** | | | | |
| CBA | Sackville, N. B. | 50,000 | 250 | I-B |
| **1130 KILOCYCLES** | | | | |
| CBR | Vancouver, B. C. | 5,000 | 220 | I-B |

Reclassification of KWKH, 50 kw Class II station (Treaty provision) at Shreveport, Louisiana to I-B acceptable so long as CBR, Class I-B station at Vancouver continues to operate with 5 kw power as provided by the Treaty. When power of CBR is increased to 50 kw, classification of KWKH to be dependent upon interference received from CBR. If CBR is operated with directional antenna which provides satisfactory service to the British Columbia area and protects the service of KWKH as a I-B station in accordance with the Treaty, this classification may be continued.

| | | | | |
|---|---|---|---|---|
| **1150 KILOCYCLES** | | | | |
| CKX | Brandon, Man. | 1,000 | 150 | III-A |
| CKOC | Hamilton, Ont. | 500-N<br>1,000-D | 125 | III-B |
| CHSJ | St. John, N. B. | 1,000 | 140 | III-B |
| **1220 KILOCYCLES** | | | | |
| CHAB | Moose Jaw, Sask. | 1,000 | 125 | II |

This assignment is accepted by Mexico subject to a directional antenna if objectionable interference exists on the Mexican border as a result of the operation of this station at night.

| | | | | |
|---|---|---|---|---|
| **1230 KILOCYCLES** | | | | |
| CJCJ | Calgary, Alta. | 100 | 125 | IV |
| CFCH | North Bay, Ont. | 100 | 125 | IV |
| CKNX | Wingham, Ont. | 100 | 125 | IV |
| CKTB | St. Catharines, Ont. (See 1550 kc.) | 100 | 190 | IV |
| CHGB | Ste. Anne de la Pocatiere, Que. | 100 | 180 | IV |
| CKVD | Val d'Or, Que. | 100 | 125 | IV |

| Call Letter | Location | Power in Watts | Radiation mv/m | Class |
|---|---|---|---|---|
| | **1240 KILOCYCLES** | | | |
| CFPR..... | Prince Rupert, B. C. | 50 | 125 | IV |
| CJBJ..... | Chicoutimi, Que. | 100 | 125 | IV |
| CKMC..... | Cobalt, Ontario | 50 | 125 | IV |
| CJCS..... | Stratford, Ont. | 50 | 125 | IV |
| CKCH..... | Hull, Que. | 100 | 160 | IV |
| CHLT..... | Sherbrooke, Que. | 100 | 165 | IV |
| CKNB..... | Campbellton, N. B. | 100 | 125 | IV |
| | **1260 KILOCYCLES** | | | |
| CFRN..... | Edmonton, Alta. | 1,000 | 150 | III-A |
| | **1270 KILOCYCLES** | | | |
| CJCB..... | Sydney, N. S. | 1,000 | 190 | III-A |
| | **1340 KILOCYCLES** | | | |
| CKCO..... | Ottawa, Ont. | 100 | 125 | IV |
| CKCV..... | Quebec, Que. | 100 | 135 | IV |
| CHCK..... | Charlottetown, P. E. I. | 50 | 125 | IV |
| CJLS..... | Yarmouth, N. S. | 100 | 160 | IV |
| CFGP..... | Grande Prairie, Alta. | 250 | 190 | IV |
| CHWK..... | Chilliwack, B. C. | 100 | 125 | IV |
| | **1380 KILOCYCLES** | | | |
| CKPC..... | Brantford, Ont. | 100 | 135 | IV |
| | **1400 KILOCYCLES** | | | |
| CJOC..... | Lethbridge, Alta. | 100 | 125 | IV |
| CFAR..... | Flin Flon, Man. | 100 | 125 | IV |
| CKRN..... | Rouyn, Que. | 250 | 125 | IV |
| CHRC..... | Quebec, Que. | 100 | 125 | IV |
| CKCW..... | Moncton, N. B. | 100 | 160 | IV |
| CFOS..... | Owen Sound, Ont. | 100 | 125 | IV |
| | **1410 KILOCYCLES** | | | |
| CKMO..... | Vancouver, B. C. | 1,000 | 130 | III-A |
| | **1450 KILOCYCLES** | | | |
| CKLN..... | Nelson, B. C. | 100 | 125 | IV |
| CKCA..... | Kenora, Ont. | 100–N<br>250–D | 165 | IV |
| CHLN..... | Three Rivers, Que. | 100 | 200 | IV |
| CFLC..... | Prescott, Ont. | 100 | 125 | IV |
| | **1460 KILOCYCLES** | | | |
| CJGX..... | Yorkton, Sask. | 1,000 | 160 | III-A |
| | **1470 KILOCYCLES** | | | |
| CKGB..... | Timmins, Ont. | 1,000 | 150 | III-B |
| | **1480 KILOCYCLES** | | | |
| CFCT..... | Victoria, B. C. | 500 | 180 | III-B |
| CHGS..... | Summerside, P. E. I. | 50 | 125 | IV |
| | **1490 KILOCYCLES** | | | |
| CKCR..... | Waterloo, Ont. | 100 | 130 | IV |
| CFRC..... | Kingston, Ont. | 100 | 190 | IV |
| CHLP..... | Montreal, Que. | 100 | 130 | IV |
| CJIC..... | Sault Ste. Marie, Ont. | 100 | 160 | IV |

It was agreed between the delegates from the United States and Canada that if an increase in power beyond that of a local station is contemplated for either CJIC or WSOO, the Department of Transport will advise the Commission, or vice versa, in order that the increase in power of either station may be considered in conjunction with that of the other.

| | | | | |
|---|---|---|---|---|
| | **1550 KILOCYCLES** | | | |
| CKTB..... | St. Catharines, Ont. (Construction Permit) | 1,000 | DA | I-B |
| | **1570 KILOCYCLES** | | | |
| CFPL..... | London, Ont. | 1,000 | DA | II |


# UP IN CANADA

## 30 NATIONAL ADVERTISERS CAN'T BE WRONG...

**in using 40% of a CFRB working week, the year 'round!**

Of course shrewd advertisers use CFRB to sell their wares in Canada's richest market! The figures prove it. But more important is the answer to the question "Why are more and more advertisers reaching this market over CFRB?" . . . Here are a few reasons:

1. CFRB is the key to an immediate audience that represents 29% of the population of Canada, and nearly 50% of its purchasing power!
2. CFRB's listening area includes 12 cities, 42 towns and 192,174 farm homes!
3. CFRB's monthly mail averages over 200,000 letters!
4. In a recent "survey" comprising 1600 personal interviews, 53.4% of the interviewees named CFRB their favourite station. *In fact, CFRB led the runner-up by nearly 2 to 1!*

CFRB is now in its 14th year of continuous service. Before placing your advertising in Ontario, Canada's *2½ billion* dollar market, get *all* the facts concerning CFRB—*the key to Ontario sales!*

**AFTER MARCH 29—10,000 WATTS ON 860 KC.**

**CFRB** The most popular station in Canada's richest market!

**TORONTO**

Advertising representatives in U. S. A.
JOSEPH HERSHEY McGILLVRA
New York • Chicago • Boston
San Francisco • Los Angeles • Atlanta

# Log of Mexican Broadcast Stations

**Frequency List Showing New Assignments Effective March 29, 1941 Under the Havana Treaty**

**(As Released by the Government of Mexico, March 13, 1941)**

**DA—Directional Antenna**

**NOTE**

**Where two powers are shown, lower wattage represents operating power, higher represents authorized potential power.**

**Class designation refers to authorized potential power.**

| Call Letters | City | Power in Watts | Class |
|---|---|---|---|
| **580 KILOCYCLES** | | | |
| XEMU | Piedras Negras, Coah. | 250 | IV |
| **600 KILOCYCLES** | | | |
| XEZ | Merida, Yuc. | 2,000 | III-A |
| **610 KILOCYCLES** | | | |
| XEBX | Sabinas, Coah. | 250<br>500 | III-B |
| XERJ | Mazatlan, Sin. | 600 | III-B |
| **630 KILOCYCLES** | | | |
| XEFB | Monterrey, N. L. | 500 | III-B |
| **660 KILOCYCLES** | | | |
| XEBZ | Mexico, D. F. | 100<br>500 | II<br>DA |
| **680 KILOCYCLES** | | | |
| XED | Guadalajara, Jal. | 1,000 | II<br>DA |
| **690 KILOCYCLES** | | | |
| XEN | Mexico, D. F. | 1,000<br>5,000 | II |
| XEAC | Tijuana, B. C. | 5,000 | II |
| **730 KILOCYCLES** | | | |
| XEDP | Mexico, D. F. | 500<br>150,000 | I-A |
| **790 KILOCYCLES** | | | |
| XERC | Mexico, D. F. | 500<br>1,000 | III-A |
| **†800 KILOCYCLES** | | | |
| XERA | Villa Acuna, Coah. | 500,000 | I-A |

† Log does not indicate frequency for XERA, operated by Dr. John R. Brinkley; allocation approved at Washington conference in January lists a 150,000-watt station at Nogales on 800 kc.

| Call Letters | City | Power in Watts | Class |
|---|---|---|---|
| **810 KILOCYCLES** | | | |
| XEFW | Tampico, Tams. | 300<br>5,000 | II<br>DA |
| **830 KILOCYCLES** | | | |
| XELA | Mexico, D. F. | 1,000 | II |
| **860 KILOCYCLES** | | | |
| XEMO | Tijuana, B. C. | 5,000 | II |
| XEUN | Mexico, D. F | 1,000<br>5,000 | II |
| **900 KILOCYCLES** | | | |
| XEW | Mexico, D. F. | 100,000 | I-A |
| **910 KILOCYCLES** | | | |
| XEAO | Mexicali, B. C. | 250 | IV |
| **920 KILOCYCLES** | | | |
| XEBH | Hermosillo, Son. | 1,000 | III-B |
| **940 KILOCYCLES** | | | |
| XEQ | Mexico, D. F. | 50,000 | I-B |
| **950 KILOCYCLES** | | | |
| XEGM | Tijuana, B. C. | 2,500 | III-A<br>DA |
| **960 KILOCYCLES** | | | |
| XEFE | Nuevo Laredo, Tams. | 250<br>1,000 | III-A |
| XEU | Veracruz, Ver. | 500 | III-B |
| XEHK | Guadalajara, Jal. | 125<br>250 | IV |
| **970 KILOCYCLES** | | | |
| XEK | Mexico, D. F. | 200<br>500 | III-B |
| XEJ | Cuidad Juarez, Chih. | 1,000<br>5,000 | III-A |
| **980 KILOCYCLES** | | | |
| XEFQ | Cananea, Son. | 500 | III-B |
| XEXT | Tepic, Nay. | 1,000 | III-A |
| **990 KILOCYCLES** | | | |
| XET | Monterrey, N. L. | 5,000 | II |
| XECL | Mexicali, B. C. | 1,000<br>5,000 | II |
| **1010 KILOCYCLES** | | | |
| XEBG | Tijuana, B. C. | 500 | II |
| **1050 KILOCYCLES** | | | |
| XEG | Monterrey, N. L. | 50,000<br>150,000 | I-A |
| **1090 KILOCYCLES** | | | |
| XERB | Rosarito, B. C. | 50,000 | I-B<br>DA |
| XEHR | Puebla, Pue. | 250 | II |
| **1110 KILOCYCLES** | | | |
| XEFO | Mexico, D. F. | 5,000<br>20,000 | II |
| **1140 KILOCYCLES** | | | |
| XENT | Nuevo Laredo,Tams. | 50,000 | I-B<br>DA |
| XEON | Tijuana, B. C. | 2,000 | II |
| **1150 KILOCYCLES** | | | |
| XEJP | Mexico, D. F. | 100<br>600 | III-B |
| XEJS | Cananea, Son. | 100<br>500 | III-B |
| **1170 KILOCYCLES** | | | |
| XECD | Puebla, Pue. | 350 | II |
| **1190 KILOCYCLES** | | | |
| XELO | Tijuana, B. C. | 10,000<br>50,000 | I-B<br>DA |
| **1220 KILOCYCLES** | | | |
| XEB | Mexico, D. F. | 20,000<br>100,000 | I-A |
| **1250 KILOCYCLES** | | | |
| XEAT | Parral, Chih. | 250<br>600 | III-B |
| XEH | Monterrey, N. L. | 100<br>250 | IV |
| XETF | Veracruz, Ver. | 500 | III-B |
| XEDK | Guadalajara, Jal. | 250<br>500 | III-B |
| **1260 KILOCYCLES** | | | |
| XEL | Mexico, D. F. | 250<br>750 | III-B |
| XEBL | Culiacan, Sin. | 500 | III-B |
| XEBM | San Luis Potosi, S. L. P. | 150 | IV |
| XEDW | Minatitlan, Ver. | 250 | IV |
| XEBU | Chihuahua, Chih. | 100 | IV |
| XEBP | Torreon, Coah. | 250 | IV |
| XEDF | Nuevo Laredo, Tams. | 250 | IV |
| **1270 KILOCYCLES** | | | |
| XEDL | Navojoa, Son. | 500 | III-B |
| XEFM | Leon, Gto. | 20<br>100 | IV |
| XEBC | Morelia, Mich. | 100 | IV |
| XEBA | C. Guzman, Jal. | 20<br>250 | IV |
| XEFV | C. Juarez, Chih. | 50<br>100 | IV |
| XEME | Merida, Yuc. | 400<br>500 | III-B |
| **1280 KILOCYCLES** | | | |
| XEX | Monterrey, N. L. | 500 | III-B |
| XEE | Durango, Dgo. | 50<br>100 | IV |
| XEOX | Los Mochis, Sin. | 250 | IV |
| XELK | Zacatecas, Zac. | 100 | IV |
| XEBW | Chihuahua, Chih. | 250<br>600 | III-B |
| XERL | Colima, Col. | 250 | IV |
| XEAG | Cordoba, Ver. | 250 | IV |
| **1290 KILOCYCLES** | | | |
| XEDA | Mexico, D. F. | 200<br>1,000 | III-A |
| XEAP | C. Obregon, Son. | 50<br>100 | IV |
| **1300 KILOCYCLES** | | | |
| XEP | C. Juarez, Chih. | 500 | III-B |
| XES | Tampico, Tams. | 100<br>5,000 | III-A |
| **1310 KILOCYCLES** | | | |
| XEC | Tijuana, B. C. | 100 | IV |
| XEHV | Veracruz, Ver. | 1,000 | III-A |
| XEAD | [ Guadalajara, Jal. | 500 | III-B |
| **1320 KILOCYCLES** | | | |
| XEAI | Mexico, D.F. | 500 | III-B |
| **1330 KILOCYCLES** | | | |
| XEKS | Saltillo, Coah. | 100 | IV |
| XEBO | Irapuato, Gto. | 600 | III-B |
| **1340 KILOCYCLES** | | | |
| XELW | Guadalajara, Jal. | 250 | IV |
| XEDH | Villa Acuna, Coah. | 200 | IV |
| XEDK | N. Laredo, Tams. | 100 | IV |
| XEFZ | Coatzacoalcos, Ver. | 250 | IV |
| XECA | Tampico, Tams. | 250 | IV |
| XECW | Cordoba, Ver. | 250 | IV |
| XECF | Los Mochis, Sin. | 150 | IV |
| XEJK | Chihuahua, Chih. | 100 | IV |
| XEFC | Merida, Yuc. | 100<br>250 | IV |
| XEXS | Toluca, Mex. | 75<br>100 | IV |
| XEMA | Fresnillo, Zac. | 100 | IV |
| XEAA | Mexicali, B. C. | 200<br>250 | IV |
| **1350 KILOCYCLES** | | | |
| XEQK | Mexico, D. F. | 400<br>1,000 | III-A |
| XETB | Torreon, Coah. | 500 | III-B |
| **1360 KILOCYCLES** | | | |
| XEBI | Aguascalientes, Ags. | 250 | IV |
| **1370 KILOCYCLES** | | | |
| XEMR | Monterrey, N. L. | 500 | III-B |
| XEAF | Nogales, Son. | 750<br>1,000 | III-A |
| XEA | Campeche, Cam. | 250 | IV |
| **1380 KILOCYCLES** | | | |
| XEMX | Mexico, D. F. | 100<br>500 | III-B |
| **1390 KILOCYCLES** | | | |
| XEM | Chihuahua, Chih. | 500 | III-B |
| XEAZ | Reynosa, Tams. | 250 | IV |
| **1400 KILOCYCLES** | | | |
| XEAM | Matamoros, Tams. | 250 | IV |
| XEF | C. Juarez, Chih. | 100 | IV |
| XEAJ | Navojoa, Son. | 100 | IV |
| XEI | Morelia, Mich. | 250 | IV |
| **1410 KILOCYCLES** | | | |
| XEBS | Mexico, D. F. | 200<br>750 | III-B |
| **1420 KILOCYCLES** | | | |
| XEDS | Mazatlan, Sin. | 500 | III-B |
| **1430 KILOCYCLES** | | | |
| XECZ | San Luis Potosi, S. L. P. | 100<br>1,000 | III-A |
| XEOK | Progreso, Yuc. | 100 | IV |
| **1440 KILOCYCLES** | | | |
| XELZ | Mexico, D. F. | 250<br>1,000 | III-A |
| XEFI | Chihuahua, Chih. | 1,000 | III-B |
| **1450 KILOCYCLES** | | | |
| XEY | S. L. Rio Colorado, Son. | 250 | IV |
| XECC | Zamora, Mich. | 100 | IV |
| XEBQ | Torreon, Coah. | 100 | IV |
| XEDJ | Magdalena, Son. | 100 | IV |
| XEFK | Merida, Yuc. | 100 | IV |
| XERK | Tepic, Nay. | 100 | IV |
| XEXE | Texcoco, Mex. | 100 | IV |
| XEBJ | C. Victoria, Tams. | 100 | IV |
| XEPP | Orizaba, Ver. | 100 | IV |
| **1470 KILOCYCLES** | | | |
| XEAU | Tijuana, B. C. | 250<br>5,000 | III-A |
| XESM | Mexico, D. F. | 500<br>1,000 | III-A |
| **1490 KILOCYCLES** | | | |
| XEJR | H. del Parral, Chih. | 100 | IV |
| XEDR | Guaymas, Son. | 100 | IV |
| XECH | Toluca, Mex. | 250 | IV |
| **1500 KILOCYCLES** | | | |
| XERH | Mexico, D. F. | 400<br>500 | III-B |
| **1570 KILOCYCLES** | | | |
| XEAW | Reynosa, Tams. | 100,000 | I-A |
| **1590 KILOCYCLES** | | | |
| XEMC | Mexico, D. F. | 200<br>5,000 | III-A |


BROADCASTING . . . TOPS WITH TIME BUYERS!

The Weekly Newsmagazine of Radio Broadcast Advertising

# Log of Cuban Broadcast Stations

## Frequency List Showing New Assignments Effective March 29, 1941 Under the Havana Treaty

### Including Assignments to Haiti and the Dominican Republic

(As Approved by the Respective Governments)

ABBREVIATIONS

†—Present Authorized Power. D—Daytime. N—Night time. ST—Shares Time. DA—Directional Antenna.

| Call Letters | City | Power in Watts | Class |
|---|---|---|---|
| | **550 KC.** | | |
| CMW | Havana | 2,500 | III-A |
| | **560 KC.** | | |
| CMKM | Manzanillo | 250 | IV |
| | **570 KC.** | | |
| CHMI | Santa Clara | †10,000<br>15,000 | II<br>DA |
| | **590 KC.** | | |
| CMCY | Havana | 15,000 | II<br>DA |
| | **600 KC.** | | |
| CMKV | Holguin | 1,000 | III-A |
| | **620 KC.** | | |
| CMJK | Camaguey | 250 | IV |
| | **630 KC.** | | |
| CMZ | Havana | †5,000<br>15,000 | II<br>DA |
| | **690 KC.** | | |
| CMQ | Havana | 25,000-D<br>15,000-N | II<br>DA |

This assignment of 25 kw. day and 15 kw. with directional antenna at night at Havana is accepted by Canada only on the distinct understanding that the directional antenna used protects the Canadian I-A assignment strictly within the provisions of the NARB Agreement, failing which the night power must be reduced to effect such protection.

| | | | |
|---|---|---|---|
| | **740 KC.** | | |
| CMK | Havana | 250 | II |
| CMJN | Camaguey | 1,000 | II |
| | **790 KC** | | |
| CMBC | Havana | 5,000-D<br>1,000-N | III-A |
| | **800 KC.** | | |
| ------ | Holguin | 1,000<br>(Reserved) ** | II |

This 1 kw. Class II assignment acceptable to Mexico without directional antenna unless interference results with secondary service of the Class I station on channel. If interference exists or the power is increased above 1 kw., directional antenna to protect Class I stations in accordance with the engineering standards of the Treaty to be required.

| | | | |
|---|---|---|---|
| | **810 KC.** | | |
| CMHQ | Santa Clara | 5,000 | II<br>DA<br>(Reserved) ** |
| | **830 KC.** | | |
| CMAX | Artemisa | 250-D<br>(Reserved) ** | II |

Assignment of 250 w. Class II station daytime only at Havana on a clear channel assigned to a Class I-A station in the U. S., acceptable to the U. S. without regard to signal of more than 5 uv. daytime only at the nearest border.

| | | | |
|---|---|---|---|
| | **860 KC.** | | |
| CMBL | Havana | 5,000 | †I<br>DA |

This assignment is accepted by Canada provided that the directional antenna used protects the Canadian I-A assignment as required by the terms of the NARB Agreement, failing which the night power must be reduced to effect such protection.

| Call Letters | City | Power in Watts | Class |
|---|---|---|---|
| | **900 KC.** | | |
| CMKS* | Guantanamo | 250 | II |
| | **910 KC.** | | |
| CMCF | Havana | 5,000 | III-A |
| | **920 KC.** | | |
| CMJL | Camaguey | 5,000<br>(Reserved) ** | III-A |
| | **930 KC.** | | |
| CMKN | Santiago de Cuba | 1,000 | III-A |
| | **950 KC.** | | |
| CMBZ | Havana | 5,000-D<br>1,000-N | III-A |
| | **960 KC.** | | |
| CMHN | Santa Clara | 1,000<br>(Reserved) ** | III-A |
| | **970 KC.** | | |
| CMKU | Santiago de Cuba | 5,000<br>(Reserved) ** | III-A |
| | **980 KC.** | | |
| CMCK | Havana | 5,000 | III-A |
| | **990 KC.** | | |
| CMHT | Trinidad | 250 | II |
| | **1000 KC.** | | |
| CMKW | Santiago de Cuba | †1,000<br>10,000 | II |
| | **1010 KC.** | | |
| CMX | Havana | 10,000 | I-B<br>DA |
| | **1050 KC.** | | |
| CMKG* | Santiago de Cuba | 250 | II |
| | **1060 KC.** | | |
| CMCM* | Havana | 250 | II |
| CMJA* | Camaguey | 250 | II |
| | **1090 KC.** | | |
| CMKX* | Banes | 250 | II |
| | **1110 KC.** | | |
| CMBY* | Havana | 250-D | II |
| | **1130 KC.** | | |
| CMKH* | Guantanamo | 250 | II |
| | **1150 KC.** | | |
| CMBQ | Havana | 5,000-D<br>1,000-N | III-A |
| | **1190 KC.** | | |
| CMCU* | Havana | 250 | II |
| | **1220 KC.** | | |
| CMKO* | Holguin | 250 | II |
| | **1230 KC.** | | |
| CMCO | Havana | 250<br>ST-CMCW | IV |
| CMCW | Havana | 250<br>ST-CMCO | IV |
| CMJE | Camaguey | 250 | IV |
| | **1240 KC.** | | |
| CMGF | Matanzas | 250 | IV |
| | **1250 KC.** | | |
| CMHO | Santa Clara | 250 | IV |
| CMKC | Santiago de Cuba | 250 | IV |
| | **1260 KC.** | | |
| CMBF | Havana | 5,000 | III-A |

| Call Letters | City | Power in Watts | Class |
|---|---|---|---|
| | **1270 KC.** | | |
| CMJM | Ciego de Avila | 1,000 | II |
| | **1280 KC.** | | |
| CMHA | Sagua la Grande | 250 | IV |
| | **1290 KC.** | | |
| CMCH | Havana | 250<br>ST-CMCX | IV |
| CMCX | Havana | 250<br>ST-CMCH | IV |
| CMKD | Santiago de Cuba | 1,000 | III-A |
| | **1300 KC.** | | |
| CMAN | Pinar del Rio | 1,000 | III-A |
| CMJF | Camaguey | 250 | IV |
| | **1310 KC.** | | |
| CMGN | Jovellanos | 1,000 | III-A |
| | **1320 KC.** | | |
| CMHP | Placetas | 250 | IV |
| CMKE | Manzanillo | 250 | IV |
| | **1330 KC.** | | |
| CMBG | Havana | 1,500<br>ST-CMBS | III-A |
| CMBS | Havana | 250<br>ST-CMBG | IV |
| | **1340 KC.** | | |
| CMJC | Camaguey | 250 | IV |
| | **1350 KC.** | | |
| CMHJ | Cien Fuegos | 250 | IV |
| CMKY | Puerto Padre | 100 | IV |
| | **1360 KC.** | | |
| CMC | Havana | 250<br>ST-CMOA | IV |
| CMOA | Havana | 250<br>ST-CMC | IV |

Assignments acceptable without regard to slight daytime interference with WKAT, 1 kw., Class III-B station at Miami, Fla. If more than 250 w power is proposed at any time, operation with a directional antenna or a different frequency assignment to be required giving protection to the U. S. stations in accordance with the engineering standards of the Treaty.

| | | | |
|---|---|---|---|
| | **1370 KC.** | | |
| CMAC | Guanajay | 100 | IV |
| CMJH | Ciego de Avila | 250 | IV |
| | **1380 KC.** | | |
| CMHK | Cruces | 250 | IV |
| | **1390 KC.** | | |
| CMCB | Havana | 250<br>ST-CMBX | IV |
| CMBX | Havana | 250<br>ST-CMCB | IV |
| CMKR | Santiago de Cuba | 250 | IV |
| | **1400 KC.** | | |
| CMJW | Camaguey | 250 | IV |
| | **1410 KC.** | | |
| CMHB | Sancti Spiritus | 250 | IV |
| | **1420 KC.** | | |
| CMBD | Havana | †250<br>5,000<br>ST-CMCQ | IV<br>III-A |
| CMCQ | Havana | 250<br>5,000<br>ST-CMBD | IV<br>III-A |

| Call Letters | City | Power in Watts | Class |
|---|---|---|---|
| | **1430 KC.** | | |
| CMKZ | Palma Soriano | 250 | IV |
| | **1440 KC.** | | |
| CMGH | Matanzas | †500<br>5,000 | III-A |
| CMJI | Ciego de Avila | 250 | IV |
| | **1450 KC.** | | |
| CMAB | Pinar del Rio | 250 | IV |
| CMHM | Cien Fuegos | 250 | IV |
| | **1460 KC.** | | |
| CMCG | Havana | 250 | II |
| CMKQ | Santiago de Cuba | 500 | III-B |
| | **1470 KC.** | | |
| CMGE | Cardenas | 250 | IV |
| CMJO | Ciego de Avila | 250 | IV |
| | **1480 KC.** | | |
| CMHX | Santa Clara | 250 | IV |
| | **1490 KC.** | | |
| CMOX | Havana | 250<br>ST-CMCA | IV |
| CMCA | Havana | 250<br>ST-CMOX | IV |
| CMKF | Holguin | 250 | IV |
| | **1540 KC.** | | |
| CMBH | Havana | 5,000 | II |
| | **1560 KC.** | | |
| CMHD | Caibarien | †250<br>1,000 | II |
| | **1580 KC.** | | |
| CMCJ | Havana | 250<br>ST-CMCR | IV |
| CMCR | Havana | 250<br>ST-CMCJ | IV |
| CMJQ | Neuvitas | 250 | IV |

* This 250 w. Class II assignment acceptable to U. S. (or other affected nations) without directional antenna unless interference results with secondary service of the Class I station on channel. If interference exists or the power is increased above 250 w., directional antenna to protect Class I stations in accordance with the engineering standards of the Treaty to be required.

** The term "reserved" is understood to mean that the Cuban government intends placing stations designated on the channels mentioned.

## DOMINICAN REPUBLIC

| | | | |
|---|---|---|---|
| | **950 KC.** | | |
| HIX | Ciudad Trujillo | 1,000 | III-A |
| | **1090 KC.** | | |
| HIN | Ciudad Trujillo | 150 | II |
| | **1350 KC.** | | |
| HIZ | Ciudad Trujillo | 200 | IV |
| | **1470 KC.** | | |
| HISQ | Ciudad Trujillo | 25 | IV |

## HAITI

| | | | |
|---|---|---|---|
| | **1080 KC.** | | |
| HHK | Leogane | 25,000 | II<br>DA |
| | **1230 KC.** | | |
| HHW | Port au Prince | 100 | IV |


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Montclair (N. J.) 2-7859

# Definitions of Station Classes Under The Reallocation

**As Contained in North American Broadcasting Agreement (Havana Treaty)**

**C—Classes of Stations and Use of The Several Classes of Channels**

1. *Classes of stations* — Broadcast stations are divided into four principal classes, to be designated Class I, Class II, Class III, and Class IV, respectively.

2. *Definitions of classes*—The four classes of broadcast stations are defined as follows:

*Class I:* A dominant station operating on a clear channel and designed to render primary and secondary service over an extended area and at relatively long distances. Class I stations are subdivided into two classes:

*Class I-A:* A Class I station which operates with power of 50 kw or more and which has its primary service area, within the limits of the country in which the station is located, free from objectionable interference from other stations on the same and adjacent channels, and its secondary service area, within the same limits, free from objectionable inteference from stations on the same channel, in accordance with the engineering standards hereinafter set forth.

*Class I-B:* A Class I station which operates with power of not less than 10 kw or more than 50 kw and which has its primary service area free from objectionable interference from other stations on the same and adjacent channels and its secondary service area free from objectionable interference from stations on the same channel, in accordance with the engineering standards hereinafter set forth.

(a) When two Class I-B stations on the same channel are separated by a distance of 2800 miles or more, neither station shall be required to install a directional antenna.

(b) When two Class I-B stations on the same channel are separated by a distance of more than 1800 miles and less than 2800 miles, it will, in the absence of proof to the contrary, be assumed that each station is free of objectionable interference caused by the other and neither shall be required to install directional antennae or take other precautions to avoid such interference. In case the existence of objectionable interference is proved, the governments concerned will consult with each other regarding the desirability and practicability of installation of directional antennae or the taking of other precautions to eliminate the interference and will determine by special arrangement the measures, if any, to be taken.

(c) When two Class I-B stations on the same channel are separated by a distance of less than 1800 miles, it will, in the absence of proof to the contrary, be assumed that the installation of directional antennae or the taking of other precautions to avoid interference is necessary, and the governments concerned will consult with each other and will take such measures as may be agreed upon between them to the end that the objectionable interference may be reduced or eliminated.

*Class II:* A "secondary" station which operates on a clear channel and is designed to render service over a primary service area which, depending on geographical location and power used, may be relatively large, but which is limited by and subject to such interference as may be received from Class I stations. A station of this class shall operate with power of not less than 0.25 kw. or more than 50 kw. Whenever necessary a Class II station shall use a directional antenna or other means to avoid interference, in accordance with the engineering standards hereinafter set forth, with Class I stations and with other Class II stations.

*Class III:* A station which operates on a regional channel and is designed to render service primarily to a metropolitan district and the rural area contained therein and contiguous thereto. Class III stations are subdivided into two classes:

*Class III-A:* A Class III station which operates with power not less than one kilowatt or more than five kilowatts and the service area of which is subject to interference in accordance with the engineering standards hereinafter set forth.

*Class III-B:* A Class III station which operates with a power not less than 0.5 kw or more than 1 kw night and 5 kw daytime and the service area of which is subject to interference in accord with the engineering standards hereinafter set forth.

*Class IV:* A station using a local channel and designed to render service primarily to a city or town and the suburban and rural areas contiguous thereto. The power of a station of this class shall not be less than 0.1 kw or more than 0.25 kw and its service area is subject to interference in accord with the engineering standards hereinafter set forth.

3. *Change of class*—If a station or stations in Class III-B located in any country can, through the use of directional antennae or otherwise, so reduce the interference caused or received by such station or stations to the field contour to which interference to stations in Class III-A is allowed, such station or stations shall automatically be classified and included in Class III-A and shall thereafter be so recognized and treated by the Administrations of all countries within the Region.

4. *Use of clear channels:*

(a) In principle and subject only to the exception hereinafter set forth, Class I stations shall be assigned only to clear channels.

(b) Class II stations may be assigned to clear channels only on condition that objectionable interference will not be caused to any Class I stations. Where any country has priority of use of a clear channel for any class I-A station, no other country shall assign any Class II station to that channel for nighttime operation (from sunset to sunrise at the location of the Class II station) unless such Class II station is located not less than 650 miles from the nearest border of the country in which the Class I-A station is located; provided, however, that where an assignment for a Class II station is specifically stated in Appendix I, such assignment shall be deemed as authorized under the limitations therein set forth.

5. *Use of regional channels:*

(a) In general only Class III-A and Class III-B stations shall be assigned to regional channels.

(b) On condition that interference be not caused to any Class III-A or Class III-B station, and subject to such interference as may be received from Class III-A or Class III-B stations, Class IV stations may be assigned to regional channels.

(c) Because of their geographical location with respect to the North American continent, special consideration will be given to the use by Cuba, the Dominion Republic, Haiti and Newfoundland of stations of Classes I and II assigned to certain regional channels under certain conditions, with respect to power and precautions to avoid objectionable interference as set forth in Appendix VII.

6. *Use of local channels*—Only Class IV stations shall be assigned to local channels.


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